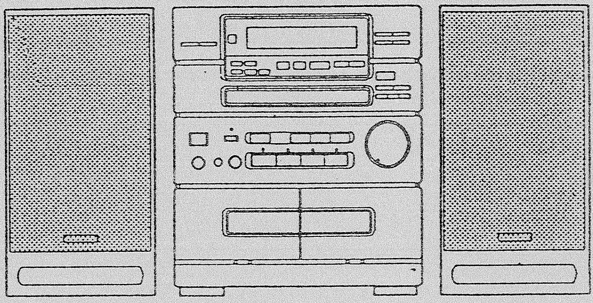
S/M Code No.0074 DATE OF ISSUE 7/1992 - T

aiwa

NSX-350M
NSX-351M
NSX-352M

SERVICE MANUAL



STEREO CASSETTE RECIVER

- BASIC TAPE MECHANISM : 1ZM – 7
- TYPE. NSX – 350M (LH, HE, U, E, K, Z)
  NSX – 351M (U) NSX – 352M (U)

SYSTEM	CASSIVER	REMOTE CONTROLLER	SPEAKER	COMPACT DISC
NSX – 350M	CX – N350M	RC – TN350M	SX – N350M	※DX – N350M
NSX – 351M	CX – N351M	RC – TN351M	SX – N351M	※DX – N351M
NSX – 352M	CX – N352M	RC – TN352M	SX – N352M	※DX – N352M

※As to the service information of DX – N350M, DX – N351M, DX – N352M see the individual service manual of DX – N350M, DX – N351M, DX – N352M.

※There is electrical difference depending on colors (gold and white).

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SPECIFICATIONS

<FM section>
Frequency range : 87.5MHz to 108MHz
Usable sensitivity(IHF): LH, HE, U : 1.3 μ V (75ohms) 13.2dBf
E, K : 2.0 μ V (75ohms) 18dBf
Z : 5.5 μ V (75ohms) 13dBf
Alternate channel selectivity
: 50dB (± 400kHz)
Signal-to-noise ratio : Except Z : 70dB (STEREO), 76dB (MONO)
Z : 65dB (STEREO), 73dB (MONO)
Harmonic distortion : 0.3 % (MONO), 1kHz
0.5 % (STEREO, L-R), 1kHz
Frequency response : Z : 30Hz to 15kHz (+ 0.5dB, – 3dB)
Stereo separation : Except Z : 33dB at 1kHz
Z : 30dB
Antenna : 75ohms (unbalanced)

<AM(MW)section>
Frequency range : HE, E, K, Z : AM531 (530) kHz to 1,602 (1,710) kHz
LH, U : AM530 (531) kHz to 1,710 (1,602) kHz
Usable sensitivity : 350 μ V/m
Selectivity : 22dB (9kHz)
Signal-to-noise ratio : 53dB (100dB input)
Antennas : Loop antenna

<LW section> (E, K, Z)
Frequency range : 144kHz to 290kHz
Sensitivity : 1,400 μ V/m
Antenna : Antenna code

<Timer section>
Program timer : On-timer, capable of free setting
Sleep timer : Capable of setting in 10-minute increments, 120minutes maximum

<Amplifier section>
Power output : LH, HE : 40W + 40W (6ohms, T.H.D 10 % 1kHz)
E, K, Z : 30W + 30W (6ohms, T.H.D 1 % 1kHz)
FTC RULE (U model only)
30 watts per channel, Min. RMS at 6ohms, from 50Hz to 20kHz, with no more than 1 %
Harmonic distortion : Total Harmonic Distortion 0.05 % (15W, 1kHz, 6ohms)
Input sensitivity : VIDEO/AUX : 150mV (adjustable)

<Cassette deck section>
Track format : 4 tracks, 2 channels
Frequency response : CrO_2 tape : 50 – 16,000Hz
Normal tape : 50 – 15,000Hz
Signal-to-noise ratio : 60dB (DOLBY NR ON, CrO_2 tape peak level))
Tape speed : 4.8cm/sec.(1 $^7/_8$ips)
9.5cm/sec.(double speed)
Recording system : AC bias
Erasure system : AC erase
Motor : DC servomotor × 1
Heads : Playback head × 1 (deck 1)
Recording/playback/erasure head × 1 (deck 2)

<Speaker SX-N350M, SX-N351M, SX-N352M>
Cabinet type : 3way, bass reflex (Magnetism sealed type)
Speaker : 130mm (5 $^1/_8$ in) cone type woofer
50mm (2in) cone type tweeter
20mm (1 $^{13}/_{16}$ in) ceramic type super tweeter
Impedance : 6ohms
Music power : 40W
Output sound pressure level :
87dB/W/m
Dimensions(W × H × D) :
200 × 392 × 200mm
(7 $^7/_8$ × 15 $^1/_2$ × 7 $^7/_8$ in)
Weight : 3.3kg (7.3lbs.)

<General>
Power requirements : LH, HE : AC 120V/220V/240V, switchable 50/60Hz
E, Z : AC 230V, 50Hz
K : AC 240V, 50/60Hz
U : AC 120/220V-240V, switchable, 50/60Hz
Power consumption : LH, HE : 95W (System total 105W)
U : 85W (System total 100W)
E, Z : 205W (System total 215W)
K : 215W (System total 225W)
Dimensions(W × H × D) : Center unit :
260 × 302.5 × 329.5 mm
(10 $^1/_4$ × 12 × 13in.)
System :
660 × 392 × 329.5 mm
(26 × 15 $^1/_2$ × 13in.)
Weight : Center unit : 7.2kg (15.8lbs.)
System : 13.8kg (30.4lbs.)

- ● Design and specifications are subject to change without notice.
- ● Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.
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■ ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1	★82-NK4-901-119	INSTRUCTION BOOKLET, U (N351M, N352M)		
	1	★82-NK4-901-019	INSTRUCTION BOOKLET, U (HE, LH, U)	※	1
	2	★82-NK4-902-018	INSTRUCTION BOOKLET, E (E, K, Z)	※	1
	3	★82-NK4-638-019	RC, RC-TN350M	※	1
	4	★87-006-225-019	AM LOOP ANT NC2 (HE, LH, U, Z)		1
	5	★87-006-226-010	AM LOOP ANT CON2 (E, K)		1
	6	★87-042-062-019	PLUG, ADAPTER S-16115 (HE)		1
	7	★87-032-845-019	PLUG, CONVERSION (LH)		1
	8	★87-043-106-019	FM, WIRE ANT (Z)		1
	9	★82-NK4-612-019	RC, RC – TN351M (N)		1
	9	★82-NK4-635-019	RC, RC – TN352M (W)		1

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
===IC===		
	87-001-440-010	IC, BA15218N
	87-002-637-010	IC, BU4051B
	87-002-247-010	IC, BU4052B
	87-002-282-010	IC, BU4066B
	87-002-444-010	IC, BU4094B
	87-001-874-010	IC, HA12134A
	87-001-942-010	IC, LA1265(S)
	87-001-334-010	IC, LB9051A
	82-NK4-630-010	IC, LC67216A-4950
	87-002-607-010	IC, LM7001
	87-027-735-010	IC, MN-3102(HE)
	87-027-736-010	IC, MN-3207(HE)
	87-027-895-010	IC, M5218AL
	87-020-758-010	IC, NJM2068SD
	87-001-790-010	IC, SBX1610-52(REMOTE SENSOR)
	87-020-966-010	IC, STK4142-MK2
	87-020-446-010	IC, TA7343AP
	87-027-827-010	IC, TC4069UBP
	87-002-218-010	IC, XRC5451AP
===TRANSISTOR===		
	89-501-615-010	FET, 2SK161GR
	89-502-415-010	FET, 2SK241GR
	89-502-466-010	FET 2SK246BL
	89-502-464-010	FET, 2SK246Y
	89-110-155-010	TRANSISTOR, 2SA1015GR
	89-112-965-010	TRANSISTOR, 2SA1296GR
	89-113-187-810	TRANSISTOR, 2SA1318TU
	87-026-463-010	TRANSISTOR, 2SA933S
	89-109-521-010	TRANSISTOR, 2SA952K
	89-213-702-010	TRANSISTOR, 2SB1370E
	87-026-462-010	TRANSISTOR, 2SC1740S
	89-318-155-010	TRANSISTOR, 2SC1815GR
	89-318-154-010	TRANSISTOR, 2SC1815Y
	89-319-233-010	TRANSISTOR, 2SC1923
	89-320-011-010	TRANSISTOR, 2SC2001K
	89-332-665-010	TRANSISTOR, 2SC3266GR
	89-333-317-810	TRANSISTOR, 2SC3331
	89-406-555-010	TRANSISTOR, 2SD655E
	87-026-269-010	TRANSISTOR, DTA114ES
	87-026-214-010	TRANSISTOR, DTA114YS
	87-026-219-010	TRANSISTOR, DTA144ES
	87-026-292-010	TRANSISTOR, DTA144WS
	87-026-245-010	TRANSISTOR, DTC114ES
	87-026-215-010	TRANSISTOR, DTC114YS
	87-026-289-010	TRANSISTOR, DTC143XS
	87-026-218-010	TRANSISTOR, DTC144ES
	87-026-293-010	TRANSISTOR, DTC144WS
	87-026-515-019	TRANSISTOR, DTD123YS
===DIODE===		
	87-001-574-010	DIODE, 1SR139
	87-002-843-019	DIODE, 1SS108
	87-001-559-010	DIODE, 1SS131
	87-020-691-010	DIODE, 1SS132
	87-002-225-010	DIODE, 40C-K10
	87-001-820-019	DIODE, GP15B(F)
	87-002-608-010	DIODE, DSF10TC
	87-002-743-010	DIODE, ZENER MTZJ33B
	87-001-916-010	DIODE, ZENER UTZJ10B
	87-001-911-010	DIODE, ZENER UTZJ4.7A
	87-001-913-010	DIODE, ZENER UTZJ5.6B
	87-001-914-010	DIODE, ZENER UTZJ6.2B
	87-001-915-010	DIODE, ZENER UTZJ6.8A
	87-002-430-010	DIODE, ZENER UTZJ8.2C

REF. NO.	PART NO.	DESCRIPTION
===MAIN CIRCUIIT BOARD SECTION===		
BPF731	★82-794-697-010	FILTER, ANTI BIRDIE(Z)
BPF831	★87-030-105-010	FILTER, BPMB6A(Z)
C101	★87-010-399-090	CAP, ELECT 3300-42 HI-R
C102	★87-010-399-090	CAP, ELECT 3300-42 HI-R
C103	★87-010-390-090	CAP, ELECT 3300-25 SME
C104	★87-010-237-019	CAP, ELECT 1000-16
C105	★87-010-101-010	CAP, ELECT 220-16 SME
C106	★87-010-764-010	CAP, ELECT 47-63
C107	★87-010-384-010	CAP, ELECT 100-25 SME
C108	★87-010-260-010	CAP, ELECT 47-25(EXCEPT U)
C108	★87-010-384-010	CAP, ELECT 100-25 SME(U)
C109	★87-010-263-010	CAP, ELECT 100-10
C110	★87-010-263-010	CAP, ELECT 100-10
C111	★87-010-370-010	CAP, ELECT 330-6.3 SME
C112	★87-010-237-019	CAP, ELECT 1000-16
C113	★87-010-403-010	CAP, ELECT 3.3-50 SME
C114	★87-018-205-010	CAP, CERA-SOL SS 0.022-25 F
C115	★87-018-208-010	CAP, CERA-SOL SS 0.047-50 F(Z)
C116	★87-018-127-010	CAP, CERA-SOL SS 470P-50 B
C117	★87-010-405-010	CAP, ELECT 10-50 SME(HE, LH, U)
C117	★87-016-145-019	CAP, ELECT 10-50 KME(E, K, Z)
C118	★87-018-208-010	CAP, CERA-SOL SS 0.047-50 F(Z)
C121	★87-018-214-010	CAP, CERA-SOL SS 0.1-50(Z)
C122	★87-018-214-010	CAP, CERA-SOL SS 0.1-50(Z)
C203	★87-018-205-010	CAP, CERA-SOL SS 0.022-25 F(Z)
C205	★87-016-073-010	CAP, ELECT 1-50 FX
C206	★87-016-073-010	CAP, ELECT 1-50 FX
C207	★87-010-401-019	CAP, ELECT 1-50 SME
C208	★87-010-401-019	CAP, ELECT 1-50 SME
C209	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C210	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C211	★87-010-401-010	CAP, ELECT 1-50 SME
C212	★87-010-401-010	CAP, ELECT 1-50 SME
C213	★87-010-402-010	CAP, ELECT 2.2-50 SME
C214	★87-010-402-010	CAP, ELECT 2.2-50 SME
C215	★87-018-131-010	CAP, CERA-SOL SS 1000P-50 B
C216	★87-018-131-010	CAP, CERA-SOL SS 1000P-50 B
C217	★87-010-401-010	CAP, ELECT 1-50 SME
C218	★87-010-401-010	CAP, ELECT 1-50 SME
C221	★87-010-400-010	CAP, ELECT 0.47-50 SME(EXCEPT U)
C222	★87-010-400-010	CAP, ELECT 0.47-50 SME(EXCEPT U)
C223	★87-010-260-010	CAP, ELECT 47-25 SME
C224	★87-010-260-010	CAP, ELECT 47-25 SME
C225	★87-010-260-019	CAP, ELECT 47-25 SME(HE, LH, U)
C225	★87-016-130-019	CAP, ELECT 47-25 KME(E, K, Z)
C226	★87-010-260-019	CAP, ELECT 47-25 SME(HE, LH, U)
C226	★87-016-130-019	CAP, ELECT 47-25 KME(E, K, Z)
C227	★87-018-214-010	CAP, CERA-SOL SS 0.1-50 F
C228	★87-018-214-010	CAP, CERA-SOL SS 0.1-50 F
C233	★87-010-546-010	CAP, ELECT 0.33-50 SME
C234	★87-010-263-010	CAP, ELECT 100-10 SME
C234	★87-016-123-018	CAP, ELECT 100-10KME(E, K, Z)
C235	★87-010-260-010	CAP, ELECT 47-25 SME(HE, LH, U)
C236	★87-010-408-010	CAP, ELECT 47-50 SME
C237	★87-010-403-010	CAP, ELECT 3.3-50 SME
C238	★87-010-403-010	CAP, ELECT 3.3-50 SME
C241	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y(Z)
C242	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y(Z)
C243	★87-018-104-010	CAP, CERA-SOL SS 10P-50 SL
C244	★87-018-104-010	CAP, CERA-SOL SS 10P-50 SL
C245	★87-010-260-010	CAP, ELECT 47-25 SME
C246	★87-010-260-010	CAP, ELECT 47-25 SME
C247	★87-018-119-010	CAP, CERA-SOL SS 100P-50 B
C248	★87-018-119-010	CAP, CERA-SOL SS 100P-50 B
C303	★87-018-123-010	CAP, CERA-SOL SS 220P-50 B
C304	★87-018-123-010	CAP, CERA-SOL SS 220P-50 B
C309	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C310	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C313	★87-018-205-010	CAP, CERA-SOL SS 0.022-25 F
C314	★87-010-260-010	CAP, ELECT 47-25 SME
C351	★87-018-121-010	CAP, CERA-SOL SS 150P-50 B
C352	★87-018-121-010	CAP, CERA-SOL SS 150P-50 B
C353	★87-018-124-010	CAP, CERA-SOL SS 270P-50 B
C354	★87-018-124-010	CAP, CERA-SOL SS 270P-50 B
C355	★87-010-260-010	CAP, ELECT 47-25 SME
C361	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C362	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C365	★87-018-205-010	CAP, CERA-SOL SS 0.022-25 F
C401	★87-010-402-010	CAP, ELECT 2.2-50 SME
C402	★87-010-402-010	CAP, ELECT 2.2-50 SME
C403	★87-018-132-010	CAP, CERA-SOL SS 2200P-16 X
C404	★87-018-132-010	CAP, CERA-SOL SS 2200P-16 X
C407	★87-010-401-010	CAP, ELECT 1-50 SME
C408	★87-010-401-010	CAP, ELECT 1-50 SME
C415	★87-018-121-010	CAP, CERA-SOL SS 150P-50 B
C416	★87-018-121-010	CAP, CERA-SOL SS 150P-50 B
C451	★87-018-123-010	CAP, CERA-SOL SS 220P-50 B
C452	★87-018-123-010	CAP, CERA-SOL SS 220P-50 B
C453	★87-018-131-010	CAP, CERA-SOL SS 1000P-50 B
C455	★87-018-131-010	CAP, CERA-SOL SS 1000P-50 B
C456	★87-010-260-010	CAP, ELECT 47-25 SME
C459	★87-018-198-010	CAP, CERA-SOL SS 2700P-16 X
C501	★87-010-405-010	CAP, ELECT 10-50 SME
C502	★87-010-405-010	CAP, ELECT 10-50 SME
C503	★87-018-195-010	CAP, CERA-SOL SS 1200P-16 X
C504	★87-018-195-010	CAP, CERA-SOL SS 1200P-16 X
C505	★87-010-401-010	CAP, ELECT 1-50 SME
C506	★87-010-401-010	CAP, ELECT 1-50 SME
C507	★87-018-131-010	CAP, CERA-SOL SS 1000P-50 B
C508	★87-018-131-010	CAP, CERA-SOL SS 1000P-50 B
C509	★87-010-371-010	CAP, ELECT 470-6.3
C515	★87-010-545-010	CAP, ELECT 0.22-50 SME
C516	★87-010-545-010	CAP, ELECT 0.22-50 SME
C517	★87-010-400-010	CAP, ELECT 0.47-50 SME
C518	★87-010-400-010	CAP, ELECT 0.47-50 SME
C520	★87-018-133-010	CAP, CERA-SOL SS 4700P-16 X
C521	★87-018-100-010	CAP, CERA-SOL SS 4.7P-50 SL
C522	★87-018-100-010	CAP, CERA-SOL SS 4.7P-50 SL
C523	★87-018-133-010	CAP, CERA-SOL SS 4700P-16 X
C524	★87-018-133-010	CAP, CERA-SOL SS 4700P-16 X
C525	★87-018-121-010	CAP, CERA-SOL SS 150P-50 B
C526	★87-010-260-010	CAP, ELECT 47-25 SME
C527	★87-010-401-010	CAP, ELECT 1-50 SME
C528	★87-018-100-010	CAP, CERA-SOL SS 4.7P-50 SL
C581	★87-010-405-010	CAP, ELECT 10-50 SME
C582	★87-010-405-010	CAP, ELECT 10-50 SME
C590	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C601	★87-010-401-010	CAP, ELECT 1-50 SME
C602	★87-010-401-010	CAP, ELECT 1-50 SME
C605	★87-018-121-010	CAP, CERA-SOL SS 150P-50 B
C606	★87-018-121-010	CAP, CERA-SOL SS 150P-50 B
C607	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C608	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C609	★87-010-401-010	CAP, ELECT 1-50 SME
C610	★87-010-401-010	CAP, ELECT 1-50 SME
C611	★87-010-404-010	CAP, ELECT 4.7-50 SME
C612	★87-010-404-010	CAP, ELECT 4.7-50 SME
C615	★87-018-198-010	CAP, CERA-SOL SS 2700P-16 X
C616	★87-018-198-010	CAP, CERA-SOL SS 2700P-16 X
C617	★87-018-122-010	CAP, CERA-SOL SS 180P-50 B
C618	★87-018-122-010	CAP, CERA-SOL SS 180P-50 B
C621	★87-010-400-010	CAP, ELECT 0.47-50 SME
C622	★87-010-400-010	CAP, ELECT 0.47-50 SME
C623	★87-010-404-010	CAP, ELECT 4.7-50 SME
C624	★87-010-404-010	CAP, ELECT 4.7-50 SME
C628	★87-010-404-010	CAP, ELECT 4.7-50 SME
C630	★87-010-405-010	CAP, ELECT 10-50 SME
C631	★87-010-401-010	CAP, ELECT 1-50 SME
C632	★87-010-401-010	CAP, ELECT 1-50 SME
C633	★87-010-101-010	CAP, ELECT 220-16 SME
C636	★87-010-404-010	CAP, ELECT 4.7-50 SME
C700	★87-010-221-010	CAP, ELECT 470-10
C701	★87-010-384-010	CAP, ELECT 100-25 SME
C702	★87-010-404-010	CAP, ELECT 4.7-50 SME
C703	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C704	★87-018-148-019	CAP, CERA-SOL SS 12P-50
C705	★87-010-248-010	CAP, ELECT 220-10 SME
C706	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C707	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C708	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C710	★87-018-149-010	CAP, CERA-SOL SS 15P-50 CH
C713	★87-018-199-010	CAP, CERA-SOL SS 3300P-16 X (EXCEPT U)
C714	★87-018-199-010	CAP, CERA-SOL SS 3300P-16 X (EXCEPT U)
C715	★87-018-195-010	CAP, CERA-SOL SS 1200P-16 X
C716	★87-018-195-010	CAP, CERA-SOL SS 1200P-16 X
C720	★87-018-121-010	CAP, CERA-SOL SS 150P-50 B
C721	★87-010-401-010	CAP, ELECT 1-50 SME
C722	★87-010-401-010	CAP, ELECT 1-50 SME
C723	★87-010-405-010	CAP, ELECT 10-50 SME
C724	★87-014-057-010	CAP, PP 1000P-100 J
C725	★87-010-401-010	CAP, ELECT 1-50 SME
C726	★87-010-403-010	CAP, ELECT 3.3-50 SME
C727	★87-010-248-010	CAP, ELECT 220-10 SME
C728	★87-010-402-010	CAP, ELECT 2.2-50 SME
C729	★87-010-402-010	CAP, ELECT 2.2-50 SME
C741	★87-010-402-010	CAP, ELECT 2.2-50 SME
C742	★87-018-125-010	CAP, CERA-SOL SS 330P-50 B
C743	★87-010-382-010	CAP, ELECT 22-25 SME
C744	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C745	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C746	★87-010-401-010	CAP, ELECT 1-50 SME
C748	★87-010-404-010	CAP, ELECT 4.7-50 SME
C749	★87-010-405-010	CAP, ELECT 10-50 SME
C750	★87-010-544-010	CAP, ELECT 0.1-50
C751	★87-010-403-010	CAP, ELECT 3.3-50 SME
C752	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C754	★87-010-260-010	CAP, ELECT 47-25 SME
C755	★87-010-401-010	CAP, ELECT 1-50 SME
C756	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C760	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y (EXCEPT Z)
C802	★87-018-102-010	CAP, CERA-SOL SS 6.8P-50 SL (EXCEPT Z)
C802	★87-018-105-010	CAP, CERA-SOL SS 12P-50 SL(Z)
C804	★87-018-102-010	CAP, CERA-SOL SS 6.8P-50 SL (EXCEPT Z)
C805	★87-018-098-010	CAP, CERA-SOL SS 3.3P-50 SL (EXCEPT Z)
C805	★87-018-097-010	CAP, CERA-SOL SS 2.2P-50 SL(Z)
C806	★87-018-096-010	CAP, CERA-SOL SS 1P-50 SL
C807	★87-018-100-010	CAP, CERA-SOL SS 4.7P-50 SL (EXCEPT Z)
C807	★87-018-106-010	CAP, CERA-SOL SS 15P-50 SL(Z)
C808	★87-018-119-010	CAP, CERA-SOL SS 100P-50 B
C809	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C810	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C811	★87-018-116-010	CAP, CERA-SOL SS 56P-50 SL
C812	★87-018-107-010	CAP, CERA-SOL SS 18P-50 SL
C813	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C814	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y

REF. NO.	PART NO.	DESCRIPTION
C815	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C816	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y(Z)
C817	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C818	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C819	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C820	★87-010-260-010	CAP, ELECT 47-25 SME
C821	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C822	★87-018-103-010	CAP, CERA-SOL SS 8.2P-50 SL
C823	★87-018-107-010	CAP, CERA-SOL SS 18P-50 SL
C826	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y(E, K, Z)
C830	★87-018-214-010	CAP, CERA-SOL SS 0.1-50 F(E, K)
C830	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y(Z)
C831	★87-018-102-010	CAP, CERS-SOL 6.8P-50 SL(EXCEPT Z)
C831	★87-018-105-010	CAP, CERA-SOL SS 12P-50 SL(Z)
C832	★87-018-108-010	CAP, CERA-SOL SS 20P-50 SL(Z)
C833	★87-018-205-010	CAP, CERA-SOL SS 0.022-25 F(Z)
C834	★87-018-103-010	CAP, CERA-SOL SS 8.2P-50 SL(Z)
C839	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C850	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y(E, K)
C850	★87-018-205-010	CAP, CERA-SOL SS 0.022-25 F(Z)
C941	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y(E, K, Z)
C942	★87-018-105-010	CAP, CERA-SOL SS 12P-50 SL(E, K)
C942	★87-018-104-010	CAP, CERA-SOL SS 10P-50 SL(Z)
C944	★87-018-105-010	CAP, CERA-SOL SS 12P-50 SL(HE, LH, U)
C944	★87-018-104-010	CAP, CERA-SOL SS 10P-50 SL(E, K, Z)
C945	★87-014-050-010	CAP, CERA-SOL SS 510P-100 PP(E, K, Z)
C946	★87-010-401-010	CAP, ELECT 1-50 SME
C949	★87-018-214-010	CAP, CERA-SOL SS 0.1-50 F(E, K, Z)
C983	★87-010-544-010	CAP, ELECT 0.1-50
C990	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y
C991	★87-018-134-010	CAP, CERA-SOL SS 0.01-16 Y(E, K, Z)
CF741	★82-794-670-010	CF BFU450C4N
CF801	★87-008-261-010	FILTER, SFE10.7MA5-A(EXCEPT Z)
CF801	★87-799-621-010	FILTER, SFE10.7MS2-A(Z)
CF802	★87-008-261-010	FILTER, SFE10.7MA5-A
CF803	★87-008-261-010	FILTER, SFE10.7MA5-A(Z)
FT101	★81-MX4-645-110	FLAT CABLE, 7P-2.0
J250	87-049-855-010	JACK, 6.3 W/S(PHONES)
J253	★80-MT3-616-019	JACK, PIN 2P(SURROUND SPEAKERS) (EXCEPT Z)
J253	★80-MT3-631-019	JACK, PIN 2P(SURROUND SPEAKERS)(Z)
J254	★87-033-215-019	TERMINAL SP 4P R(SPEAKERS)
J652	★80-MT3-616-019	JACK, PIN 2P(AUX)
J801	★87-033-214-019	ANT TERM 4P (HE, LH, U)
J801	★81-631-646-019	ANT TERM 2P PAL(E, K, Z)
L201	★87-005-336-019	COIL, 1UH(Z)
L202	★87-005-336-019	COIL, 1UH(Z)
L401	★87-003-131-010	COIL, 10MMH-L
L402	★87-003-131-010	COIL, 10MMH-L
L403	★87-005-525-010	COIL, 22MMH-J
L404	★87-005-525-010	COIL, 22MMH-J
L451	★87-007-300-010	COIL, OSC B1AS 85K
L701	★81-631-643-010	COIL
L702	★81-631-643-010	COIL
L741	★81-631-611-010	COIL, QUAD
L742	★87-008-452-010	FILTER, CFAZ450
L801	★87-006-219-010	COIL, ANT FM 3/4T, S
L802	★87-006-198-010	COIL, ANT FM 2-3/4 TS, L5
L803	★87-006-200-010	COIL, RF FM 3-1/2T, L5
L804	★87-006-220-010	COIL, RF FM 3-1-2 TS, L5
L805	★87-003-098-010	COIL, 2.2UH
L806	★87-003-145-010	COIL, 8.2UH LAL02
L807	★87-007-259-010	COIL OSC FM
L831	★87-006-202-010	COIL, RF FM46SR, L5(Z)
L832	★87-003-098-010	COIL, 2.2UH
L941	★87-006-206-010	COIL, ANT LW(E, K, Z)
L942	★87-007-305-010	COIL, OSC LW P (12017X)(E, K, Z)
R243	★87-022-050-010	RES, METAL 1W-0.22J(EXCEPT U)

REF. NO.	PART NO.	DESCRIPTION
R244	★87-022-050-010	RES, METAL 1W-0.22J(EXCEPT U)
R257	★87-022-391-010	RES, M/F 0.47-1W(EXCEPT U)
R258	★87-022-391-010	RES, M/F 0.47-1W(EXCEPT U)
RY101	★87-045-335-010	RELAY, G5Z-2A 12VDC
SFR301	★87-024-168-010	SFR, 1K DIA6V
SFR302	★87-024-168-010	SFR, 1K DIA6V
SFR351	★87-024-168-010	SFR, 1K DIA6V
SFR352	★87-024-168-010	SFR, 1K DIA6V
SFR401	★87-024-171-010	SFR, 4.7K DIA6V
SFR402	★87-024-171-010	SFR, 4.7K DIA6V
SFR451	★87-024-175-010	SFR, 47K DIA6V
SFR452	★87-024-175-010	SFR, 47K DIA6V
SFR571	★87-024-172-010	SFR, 10K DIA6V
SFR721	★87-024-171-010	SFR, 4.7K DIA6V
SFR722	★87-024-174-010	SFR, 33K DIA6V
TC801	★87-011-219-010	CAP TRIMMER 10P
TC802	★87-011-219-010	CAP TRIMMER 10P
TC803	★87-011-219-010	CAP TRIMMER 10P(Z)
TC942	★87-011-221-010	CAP TRIMMER 30P VCT51(E, K, Z)
TU101	★81-MX4-620-019	AM PACK 3(HE, LH, U)
TU101	★81-MX4-619-019	AM PACK 4(E, K, Z)
VC801	★87-027-900-010	VARI-CAP, 1SV147
VC802	★87-027-900-010	VARI-CAP, 1SV147
VC803	★87-027-900-010	VARI-CAP, 1SV147
VC804	★87-027-900-010	VARI-CAP, 1SV147(Z)
VR651	★81-MX4-636-010	VR, 50KBX2(AUX INPUT LEVEL)
X701	★87-030-278-010	RESONATOR, CRYSTAL 7.2MHZ S

===FRONT CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
C201	★87-010-264-019	CAP, ELECT 100-10 5L
C202	★87-016-088-049	CAP, ELECT 220-6.3 SR
C203	★87-015-695-019	CAP, ELECT 1-50 7L
C204	★87-010-071-019	CAP, ELECT 1-50 5L
C205	★87-015-698-019	CAP, ELECT 4.7-50 7L
C206	★87-015-698-019	CAP, ELECT 4.7-50 7L
C207	★87-015-698-019	CAP, ELECT 4.7-50 7L
C208	★87-018-214-019	CAP, CERA-SOL SS U 0.1-50 F
C209	★87-018-195-019	CAP, CERA-SOL SS U 1200P-16 X
C210	★87-018-195-019	CAP, CERA-SOL SS U 1200P-16 X
C211	★87-018-131-019	CAP, CERA-SOL SS U 1000P-50 B
C401	★87-018-134-019	CAP, CERA-SOL SS U 0.01-16 Y
C402	★87-010-404-019	CAP, ELECT 4.7-50 SME
C501	★87-010-060-019	CAP, ELECT 100-16
C601	★87-018-205-019	CAP, CERA-SOL SS U 0.022-25 F
C602	★87-018-202-019	CAP, CERA-SOL SS U 6800P-16 X
C603	★87-018-202-019	CAP, CERA-SOL SS U 6800P-16 X
C604	★87-018-202-019	CAP, CERA-SOL SS U 6800P-16 X
C605	★87-018-202-019	CAP, CERA-SOL SS U 6800P-16 X
C606	★87-018-198-019	CAP, CERA-SOL SS U 2700P-16 X
C607	★87-018-198-019	CAP, CERA-SOL SS U 2700P-16 X
C608	★87-018-129-019	CAP, CERA-SOL SS U 680P-50 B
C609	★87-018-129-019	CAP, CERA-SOL SS U 680P-50 B
C610	★87-018-124-019	CAP, CERA-SOL SS U 270P-50 B
C611	★87-018-124-019	CAP, CERA-SOL SS U 270P-50 B
C612	★87-010-068-019	CAP, ELECT 0.22-50 5L
C613	★87-010-068-019	CAP, ELECT 0.22-50 5L
C614	★87-010-068-019	CAP, ELECT 0.22-50 5L
C615	★87-010-545-019	CAP, ELECT 0.22-50 SME
C616	★87-010-068-019	CAP, ELECT 0.22-50 5L
C617	★87-015-689-019	CAP, ELECT 10-35 7L
C618	★87-015-689-019	CAP, ELECT 10-35 7L
C701	★87-018-195-019	CAP, CERA-SOL SS U 1200P-16 X
C702	★87-015-695-019	CAP, ELECT 1-50 7L
C703	★87-010-401-019	CAP, ELECT 1-50 SME
C704	★87-018-125-019	CAP, CERA-SOL SS U 330P-50 B
C705	★87-010-545-019	CAP, ELECT 0.22-50 SME
C706	★87-018-128-019	CAP, CERA-SOL SS U 560P-50 B
C707	★87-010-263-019	CAP, ELECT 100-10

REF. NO.	PART NO.	DESCRIPTION
C708	★87-010-544-019	CAP, ELECT 0.1-50
C710	★87-018-214-019	CAP, CERA-SOL SS U 0.1-50 F
C801	★87-018-119-019	CAP, CERA-SOL SS U 100P-50 B(HE)
C802	★87-010-544-019	CAP, ELECT 0.1-50(HE)
C803	★87-018-125-019	CAP, CERA-SOL SS U 330P-50 B(HE)
C804	★87-018-128-019	CAP, CERA-SOL SS U 560P-50 B(HE)
C805	★87-010-068-019	CAP, ELECT 0.22-50 5L(HE)
C806	★87-010-406-019	CAP, ELECT 22-50 SME(HE)
C807	★87-018-127-019	CAP, CERA-SOL SS U 470P-50 B(HE)
C808	★87-018-196-019	CAP, CERA-SOL SS U 1500P-16 X(HE)
C809	★87-018-196-019	CAP, CERA-SOL SS U 1500P-16 X(HE)
C810	★87-018-197-019	CAP, CERA-SOL SS U 1800P-16 X(HE)
C811	★87-018-128-019	CAP, CERA-SOL SS U 560P-50 B(HE)
C812	★87-010-544-019	CAP, ELECT 0.1-50(HE)
C813	★87-010-544-019	CAP, ELECT 0.1-50(HE)
C814	★87-018-111-019	CAP, CERA-SOL SS U 27P-50 SL(HE)
C815	★87-015-697-019	CAP, ELECT 3.3-50 7L(HE)
C816	★87-010-263-019	CAP, ELECT 100-10(HE)
C817	★87-018-125-019	CAP, CERA-SOL SS U 330P-50 B(HE)
C818	★87-015-694-019	CAP, ELECT 0.47-50 7L(HE)
C819	★87-018-134-019	CAP, CERA-SOL SS U 0.01-16 Y(HE)
FL101	★82-MK3-633-010	FL, BJ 083GK
J701	★81-MX4-630-019	JACK, 3.5(MIC)
LED401	★87-002-738-010	LED, SEL2210R(TAPE/DECK1/2)
LED402	★87-002-738-010	LED, SEL2210R(TUNER/BAND)
LED403	★87-002-738-010	LED, SEL2210R(AUX)
LED404	★87-002-738-010	LED, SEL2210R(CD)
LED405	★89-VW5-606-019	LED, SLH-38MC(STOP■)
LED406	★89-VW5-606-019	LED, SLH-38MC(DOWN▶▶)
LED407	★89-VW5-606-019	LED, SLH-38MC(PLAY/DIRECTION▶)
LED408	★89-VW5-606-019	LED, SLH-38MC(PLAY/DIRECTION◀)
LED409	★89-VW5-606-019	LED, SLH-38MC(UP◀◀)
LED410	★89-VW5-606-019	LED, SLH-38MC(PAUSE▮▮)
LED411	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED412	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED413	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED414	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED415	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED416	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED417	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED418	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
S301	★87-036-215-019	SW, TACT(PAUSE/DECK2) (HE, LH, U)
S301	★87-036-259-018	SW, TACT(PAUSE/DECK2) (E, K, Z)
S302	★87-036-215-019	SW, TACT(RECORD/REC MUTE) (HE, LH, U)
S302	★87-036-259-018	SW, TACT(RECORD/REC MUTE) (E, K, Z)
S303	★87-036-215-019	SW, TACT(SYN. DUBBING/HIGH) (HE, LH, U)
S303	★87-036-259-018	SW, TACT(SYN. DUBBING/HIGH) (E, K, Z)
S304	★87-036-215-019	SW, TACT(SYN. DUBBING/NORMAL) (HE, LH, U)
S304	★87-036-259-018	SW, TACT(SYN. DUBBING/NORMAL) (E, K, Z)
S305	★87-036-215-019	SW, TACT(TUNING) (HE, LH, U)
S305	★87-036-259-018	SW, TACT(TUNING) (E, K, Z)
S306	★87-036-215-019	SW, TACT(PRESET) (HE, LH, U)
S306	★87-036-259-018	SW, TACT(PRESET) (E, K, Z)
S307	★87-036-215-019	SW, TACT(CLOCK) (HE, LH, U)
S307	★87-036-259-018	SW, TACT(CLOCK) (E, K, Z)
S308	★87-036-215-019	SW, TACT(FM MODE) (HE, LH, Z)
S308	★87-036-259-018	SW, TACT(FM MODE) (E, K, Z)
S309	★87-036-215-019	SW, TACT(UP) (HE, LH, U)
S309	★87-036-259-018	SW, TACT(UP) (E, K, Z)

REF. NO.	PART NO.	DESCRIPTION
S310	★87-036-215-019	SW, TACT(DOWN) (HE, LH, U)
S310	★87-036-259-018	SW, TACT(DOWN) (E, K, Z)
S311	★87-036-215-019	SW, TACT(PLAY/DIRECTION) (HE, LH, U)
S311	★87-036-259-018	SW, TACT(PLAY/DIRECTION) (E, K, Z)
S312	★87-036-215-019	SW, TACT(STOP) (HE, LH, U)
S312	★87-036-259-018	SW, TACT(STOP) (E, K, Z)
S317	★87-036-215-019	SW, TACT(CLASSIC) (HE, LH, U)
S317	★87-036-259-018	SW, TACT(CLASSIC) (E, K, Z)
S321	★87-036-215-019	SW, TACT(POP) (HE, LH, U)
S321	★87-036-259-018	SW, TACT(POP) (E, K, Z)
S322	★87-036-215-019	SW, TACT(T-BASS) (HE, LH, U)
S322	★87-036-259-018	SW, TACT(T-BASS) (E, K, Z)
S323	★87-036-215-019	SW, TACT(BBE) (HE, LH, U)
S323	★87-036-259-018	SW, TACT(BBE) (E, K, Z)
S324	★87-036-215-019	SW, TACT(ROCK) (HE, LH, U)
S324	★87-036-259-018	SW, TACT(ROCK) (E, K, Z)
S325	★87-036-215-019	SW, TACT(CD) (HE, LH, U)
S325	★87-036-259-018	SW, TACT(CD) (E, K, Z)
S326	★87-036-215-019	SW, TACT(TAPE/DECK1/2) (HE, LH, U)
S326	★87-036-259-018	SW, TACT(TAPE/DECK1/2) (E, K, Z)
S327	★87-036-215-019	SW, TACT(TUNER/BAND) (HE, LH, U)
S327	★87-036-259-018	SW, TACT(TUNER/BAND) (E, K, Z)
S328	★87-036-215-019	SW, TACT(AUX) (HE, LH, U)
S328	★87-036-259-018	SW, TACT(AUX) (E, K, Z)
S329	★87-036-215-019	SW, TACT(REV MODE/DECK2) (HE, LH, U)
S329	★87-036-259-018	SW, TACT(REV MODE/DECK2) (E, K, Z)
S330	★87-036-215-019	SW, TACT(DOLBY NR) (HE, LH, U)
S330	★87-036-259-018	SW, TACT(DOLBY NR) (E, K, Z)
S331	★87-036-215-019	SW, TACT(SLEEP) (HE, LH, U)
S331	★87-036-259-018	SW, TACT(SLEEP) (E, K, Z)
S332	★87-036-215-019	SW, TACT(STANDBY) (HE, LH, U)
S332	★87-036-259-018	SW, TACT(STANDBY) (E, K, Z)
S333	★87-036-215-019	SW, TACT(POWER) (HE, LH, U)
S333	★87-036-259-018	SW, TACT(POWER) (E, K, Z)
S334	★87-036-215-019	SW, TACT(VOCAL FADER) (HE, LH, U)
S334	★87-036-259-018	SW, TACT(VOCAL FADER) (E, K, Z)
S335	★87-036-215-019	SW, TACT(1) (HE, LH, U)
S335	★87-036-259-018	SW, TACT(1) (E, K, Z)
S336	★87-036-215-019	SW, TACT(MUTE) (HE, LH, U)
S336	★87-036-259-018	SW, TACT(MUTE) (E, K, Z)
S337	★87-036-215-019	SW, TACT(DEMO) (HE, LH, U)
S337	★87-036-259-018	SW, TACT(DEMO) (E, K, Z)
S338	★87-036-215-019	SW, TACT(2) (HE, LH, U)
S338	★87-036-259-018	SW, TACT(2) (E, K, Z)
S339	★87-036-215-019	SW, TACT(3) (HE, LH, U)
S339	★87-036-259-018	SW, TACT(3) (E, K, Z)
VR701	★81-MX4-637-019	VR, 10KA RKK11K1130(MIXING PLAY)
VR702	★81-MX4-638-019	VR, SL 10KB(ECHO LEVEL)(HE)
X201	★89-MX1-704-019	CERA LOCK(MU)3.9MHZ

===MVR CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
C851	★87-010-401-010	CAP, ELECT 1-50 SME
C852	★87-010-401-010	CAP, ELECT 1-50 SME
C855	★87-018-199-010	CAP, CERA-SOL SS 3300P-16 X
C856	★87-018-199-010	CAP, CERA-SOL SS 3300P-16 X
C857	★87-018-121-010	CAP, CERA-SOL SS 150P-50 B
C858	★87-018-121-010	CAP, CERA-SOL SS 150P-50 B
C863	★87-018-129-010	CAP, CERA-SOL SS 680P-50 B
C864	★87-018-129-010	CAP, CERA-SOL SS 680P-50 B
C865	★87-010-404-010	CAP, ELECT 4.7-50 SME
C866	★87-010-404-010	CAP, ELECT 4.7-50 SME
C867	★87-010-401-010	CAP, ELECT 1-50 SME
C868	★87-010-401-010	CAP, ELECT 1-50 SME
C869	★87-010-544-010	CAP, ELECT 0.1-50
C870	★87-010-263-010	CAP, ELECT 100-10
C871	★87-010-263-010	CAP, ELECT 100-10
C872	★87-018-205-010	CAP, CERA-SOL SS 0.022-25 F

REF. NO.	PART NO.	DESCRIPTION
C708	★87-010-544-019	CAP, ELECT 0.1-50
C710	★87-018-214-019	CAP, CERA-SOL SS U 0.1-50 F
C801	★87-018-119-019	CAP, CERA-SOL SS U 100P-50 B(HE)
C802	★87-010-544-019	CAP, ELECT 0.1-50(HE)
C803	★87-018-125-019	CAP, CERA-SOL SS U 330P-50 B(HE)
C804	★87-018-128-019	CAP, CERA-SOL SS U 560P-50 B(HE)
C805	★87-010-068-019	CAP, ELECT 0.22-50 5L(HE)
C806	★87-010-406-019	CAP, ELECT 22-50 SME(HE)
C807	★87-018-127-019	CAP, CERA-SOL SS U 470P-50 B(HE)
C808	★87-018-196-019	CAP, CERA-SOL SS U 1500P-16 X(HE)
C809	★87-018-196-019	CAP, CERA-SOL SS U 1500P-16 X(HE)
C810	★87-018-197-019	CAP, CERA-SOL SS U 1800P-16 X(HE)
C811	★87-018-128-019	CAP, CERA-SOL SS U 560P-50 B(HE)
C812	★87-010-544-019	CAP, ELECT 0.1-50(HE)
C813	★87-010-544-019	CAP, ELECT 0.1-50(HE)
C814	★87-018-111-019	CAP, CERA-SOL SS U 27P-50 SL(HE)
C815	★87-015-697-019	CAP, ELECT 3.3-50 7L(HE)
C816	★87-010-263-019	CAP, ELECT 100-10(HE)
C817	★87-018-125-019	CAP, CERA-SOL SS U 330P-50 B(HE)
C818	★87-015-694-019	CAP, ELECT 0.47-50 7L(HE)
C819	★87-018-134-019	CAP, CERA-SOL SS U 0.01-16 Y(HE)
FL101	★82-MK3-633-010	FL, BJ 083GK
J701	★81-MX4-630-019	JACK, 3.5(MIC)
LED401	★87-002-738-010	LED, SEL2210R(TAPE/DECK1/2)
LED402	★87-002-738-010	LED, SEL2210R(TUNER/BAND)
LED403	★87-002-738-010	LED, SEL2210R(AUX)
LED404	★87-002-738-010	LED, SEL2210R(CD)
LED405	★89-VW5-606-019	LED, SLH-38MC(STOP■)
LED406	★89-VW5-606-019	LED, SLH-38MC(DOWN▶▶)
LED407	★89-VW5-606-019	LED, SLH-38MC(PLAY/DIRECTION▶)
LED408	★89-VW5-606-019	LED, SLH-38MC(PLAY/DIRECTION◀)
LED409	★89-VW5-606-019	LED, SLH-38MC(UP◀◀)
LED410	★89-VW5-606-019	LED, SLH-38MC(PAUSE▮▮)
LED411	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED412	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED413	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED414	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED415	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED416	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED417	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED418	★87-002-885-019	LED, SLZ481C-02 ABY (DIGITAL HIFI CD3)
S301	★87-036-215-019	SW, TACT(PAUSE/DECK2)(HE, LH, U)
S301	★87-036-259-018	SW, TACT(PAUSE/DECK2)(E, K, Z)
S302	★87-036-215-019	SW, TACT(RECORD/REC MUTE)(HE, LH, U)
S302	★87-036-259-018	SW, TACT(RECORD/REC MUTE)(E, K, Z)
S303	★87-036-215-019	SW, TACT(SYN. DUBBING/HIGH)(HE, LH, U)
S303	★87-036-259-018	SW, TACT(SYN. DUBBING/HIGH)(E, K, Z)
S304	★87-036-215-019	SW, TACT(SYN. DUBBING/NORMAL) (HE, LH, U)
S304	★87-036-259-018	SW, TACT(SYN. DUBBING/NORMAL)(E, K, Z)
S305	★87-036-215-019	SW, TACT(TUNING)(HE, LH, U)
S305	★87-036-259-018	SW, TACT(TUNING)(E, K, Z)
S306	★87-036-215-019	SW, TACT(PRESET)(HE, LH, U)
S306	★87-036-259-018	SW, TACT(PRESET)(E, K, Z)
S307	★87-036-215-019	SW, TACT(CLOCK)(HE, LH, U)
S307	★87-036-259-018	SW, TACT(CLOCK)(E, K, Z)
S308	★87-036-215-019	SW, TACT(FM MODE)(HE, LH, Z)
S308	★87-036-259-018	SW, TACT(FM MODE)(E, K, Z)
S309	★87-036-215-019	SW, TACT(UP)(HE, LH, U)
S309	★87-036-259-018	SW, TACT(UP)(E, K, Z)

REF. NO.	PART NO.	DESCRIPTION
S310	★87-036-215-019	SW, TACT(DOWN)(HE, LH, U)
S310	★87-036-259-018	SW, TACT(DOWN)(E, K, Z)
S311	★87-036-215-019	SW, TACT(PLAY/DIRECTION)(HE, LH, U)
S311	★87-036-259-018	SW, TACT(PLAY/DIRECTION)(E, K, Z)
S312	★87-036-215-019	SW, TACT(STOP)(HE, LH, U)
S312	★87-036-259-018	SW, TACT(STOP)(E, K, Z)
S317	★87-036-215-019	SW, TACT(CLASSIC)(HE, LH, U)
S317	★87-036-259-018	SW, TACT(CLASSIC)(E, K, Z)
S321	★87-036-215-019	SW, TACT(POP)(HE, LH, U)
S321	★87-036-259-018	SW, TACT(POP)(E, K, Z)
S322	★87-036-215-019	SW, TACT(T-BASS)(HE, LH, U)
S322	★87-036-259-018	SW, TACT(T-BASS)(E, K, Z)
S323	★87-036-215-019	SW, TACT(BBE)(HE, LH, U)
S323	★87-036-259-018	SW, TACT(BBE)(E, K, Z)
S324	★87-036-215-019	SW, TACT(ROCK)(HE, LH, U)
S324	★87-036-259-018	SW, TACT(ROCK)(E, K, Z)
S325	★87-036-215-019	SW, TACT(CD)(HE, LH, U)
S325	★87-036-259-018	SW, TACT(CD)(E, K, Z)
S326	★87-036-215-019	SW, TACT(TAPE/DECK1/2)(HE, LH, U)
S326	★87-036-259-018	SW, TACT(TAPE/DECK1/2)(E, K, Z)
S327	★87-036-215-019	SW, TACT(TUNER/BAND)(HE, LH, U)
S327	★87-036-259-018	SW, TACT(TUNER/BAND)(E, K, Z)
S328	★87-036-215-019	SW, TACT(AUX)(HE, LH, U)
S328	★87-036-259-018	SW, TACT(AUX)(E, K, Z)
S329	★87-036-215-019	SW, TACT(REV MODE/DECK2)(HE, LH, U)
S329	★87-036-259-018	SW, TACT(REV MODE/DECK2)(E, K, Z)
S330	★87-036-215-019	SW, TACT(DOLBY NR)(HE, LH, U)
S330	★87-036-259-018	SW, TACT(DOLBY NR)(E, K, Z)
S331	★87-036-215-019	SW, TACT(SLEEP)(HE, LH, U)
S331	★87-036-259-018	SW, TACT(SLEEP)(E, K, Z)
S332	★87-036-215-019	SW, TACT(STANDBY)(HE, LH, U)
S332	★87-036-259-018	SW, TACT(STANDBY)(E, K, Z)
S333	★87-036-215-019	SW, TACT(POWER)(HE, LH, U)
S333	★87-036-259-018	SW, TACT(POWER)(E, K, Z)
S334	★87-036-215-019	SW, TACT(VOCAL FADER)(HE, LH, U)
S334	★87-036-259-018	SW, TACT(VOCAL FADER)(E, K, Z)
S335	★87-036-215-019	SW, TACT(1)(HE, LH, U)
S335	★87-036-259-018	SW, TACT(1)(E, K, Z)
S336	★87-036-215-019	SW, TACT(MUTE)(HE, LH, U)
S336	★87-036-259-018	SW, TACT(MUTE)(E, K, Z)
S337	★87-036-215-019	SW, TACT(DEMO)(HE, LH, U)
S337	★87-036-259-018	SW, TACT(DEMO)(E, K, Z)
S338	★87-036-215-019	SW, TACT(2)(HE, LH, U)
S338	★87-036-259-018	SW, TACT(2)(E, K, Z)
S339	★87-036-215-019	SW, TACT(3)(HE, LH, U)
S339	★87-036-259-018	SW, TACT(3)(E, K, Z)
VR701	★81-MX4-637-019	VR, 10KA RKK11K1130(MIXING PLAY)
VR702	★81-MX4-638-019	VR, SL 10KB(ECHO LEVEL)(HE)
X201	★89-MX1-704-019	CERA LOCK(MU)3.9MHZ

===MVR CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
C851	★87-010-401-010	CAP, ELECT 1-50 SME
C852	★87-010-401-010	CAP, ELECT 1-50 SME
C855	★87-018-199-010	CAP, CERA-SOL SS 3300P-16 X
C856	★87-018-199-010	CAP, CERA-SOL SS 3300P-16 X
C857	★87-018-121-010	CAP, CERA-SOL SS 150P-50 B
C858	★87-018-121-010	CAP, CERA-SOL SS 150P-50 B
C863	★87-018-129-010	CAP, CERA-SOL SS 680P-50 B
C864	★87-018-129-010	CAP, CERA-SOL SS 680P-50 B
C865	★87-010-404-010	CAP, ELECT 4.7-50 SME
C866	★87-010-404-010	CAP, ELECT 4.7-50 SME
C867	★87-010-401-010	CAP, ELECT 1-50 SME
C868	★87-010-401-010	CAP, ELECT 1-50 SME
C869	★87-010-544-010	CAP, ELECT 0.1-50
C870	★87-010-263-010	CAP, ELECT 100-10
C871	★87-010-263-010	CAP, ELECT 100-10
C872	★87-018-205-010	CAP, CERA-SOL SS 0.022-25 F

REF. NO.	PART NO.	DESCRIPTION
C873	★87-018-123-010	CAP, CERA-SOL SS 220P-50 B
C874	★87-018-123-010	CAP, CERA-SOL SS 220P-50 B
C875	★87-018-119-010	CAP, CERA-SOL SS 100P-50 B
C876	★87-018-119-010	CAP, CERA-SOL SS 100P-50 B
C877	87-018-115-019	CAP, CERA-SOL SS 47P
C878	87-018-115-019	CAP, CERA-SOL SS 47P
MVR850	81-MX4-635-010	VR, 50KBX2(VOLUME)

===AC CIRCUIT BAORD SECTION===

REF. NO.	PART NO.	DESCRIPTION
FT102	81-MX4-647-010	F-CABEL, 7P-2.5
R101	★87-022-449-019	RES, NF 0.47-1/2W
R102	★87-022-449-019	RES, NF 0.47-1/2W

===DECK-1 CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
S1	87-036-110-019	SW, PUSH(PLAY)
S2	86-575-632-110	SW, LEAF(FR)
S3	87-036-110-019	SW, PUSH(CST)
S4	87-036-110-019	SW, PUSH(LH)
SOL1	★86-575-622-010	SOLENOID(PLAY)
SOL2	★86-575-622-010	SOLENOID(FR)

===DECK-2 CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
M1	87-045-319-019	MOTOR SHU2L
S10	87-036-110-019	SW, PUSH(PLAY)
S11	86-575-632-110	SW, LEAF(FR)
S12	87-036-110-019	SW, PUSH(CST)
S13	87-036-110-019	SW, PUSH(LH)
S14	87-036-109-019	SW, PUSH(REA)
S15	87-036-110-019	SW, PUSH(REB)
SFR10	★87-024-331-019	SFR 5K
SOL10	★86-575-622-010	SOLENOID(PLAY)
SOL11	★86-575-622-010	SOLENOID(FR)

REF. NO. PART NO. DESCRIPTION

===RELAY-1 CIRCUIT BOARD SECTION===

===RELAY-2 CIRCUIT BOARD SECTION===

===AC VOLTAGE CIRCUIT BOARD SECTION===

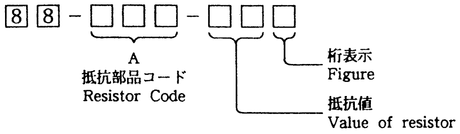
REF. NO.	PART NO.	DESCRIPTION
⚠SW101	87-036-229-019	SW, SLIDE(AC VOLTAGE)(LH, HE)
⚠SW101	87-036-235-019	SW, SLIDE(AC VOLTAGE)(U)
⚠F101	87-035-414-019	FUSE, T2A 250V UL(LH, HE, U)

===MISCELLANEOUS===

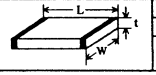
REF. NO.	PART NO.	DESCRIPTION
	98-848-127-11Z	OPTICAL PICK UP KSS-210A
⚠	★87-034-749-019	AC CORD(H) W/PLUG(LH)
⚠	★82-187-797-019	AC CORD(E)(HE)
⚠	★87-034-584-019	AC CORD, U SPT2(U)
⚠	★87-034-781-019	AC CORD(E)(E, Z)
⚠	★87-034-592-018	AC CORD(K)(K)
⚠	★87-085-185-010	BUSHING, AC CORD E(H, HE, E, K, Z)
⚠	★87-085-184-010	BUSHING, AC CORD D(LH)
⚠	★87-085-189-010	BUSHING, AC CORD U(U)
CON301	★81-MX4-661-019	CONNECTOR ASSY HEAD[PB](D1)
CON351	★81-MX4-662-019	CONNECTOR ASSY HEAD 2(D2)
PH	87-046-355-010	P HEAD(D1)
RPEH	87-046-356-010	R.P.E HEAD(D2)
⚠PT101	★82-NK4-622-019	POWER TRANSFORMER, 2NK-4H(LH, HE)
⚠PT101	★82-NK4-623-019	POWER TRANSFORMER, 2NK-4 U(U)
⚠PT101	★82-NK4-624-018	POWER TRANSFORMER, 2NK-4 E(E, Z)
⚠PT101	★82-NK4-625-018	POWER TRANSFORMER, 2NK-4 K(K)

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

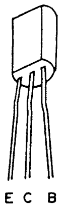
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



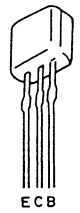
チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm)				Resistor Code : A 抵抗コード : A
				Form/外形	L	W	t	
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3126	±5%	CJ		3.2	1.6	0.5 ~0.7	128

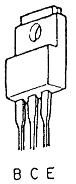
TRANSISTOR ILLUSTRATION



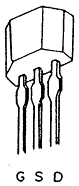
2SA1015
2SA1296
2SA1318
2SA952
2SC1815
2SC1923
2SC2001
2SC3266
2SC3331
2SD655



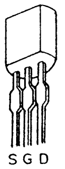
2SA933
2SC1740
DTA114ES
DTA114YS
DTA144
DTC114
DTC143
DTC144
DTD123YS



2SB1370



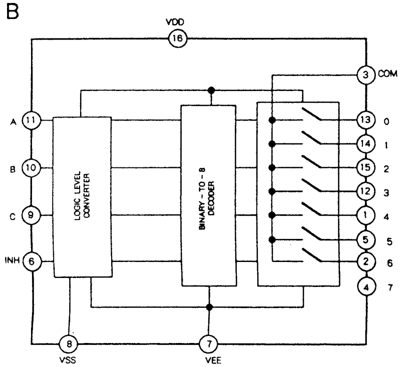
2SK241



2SK246

IC BLOCK DIAGRAM

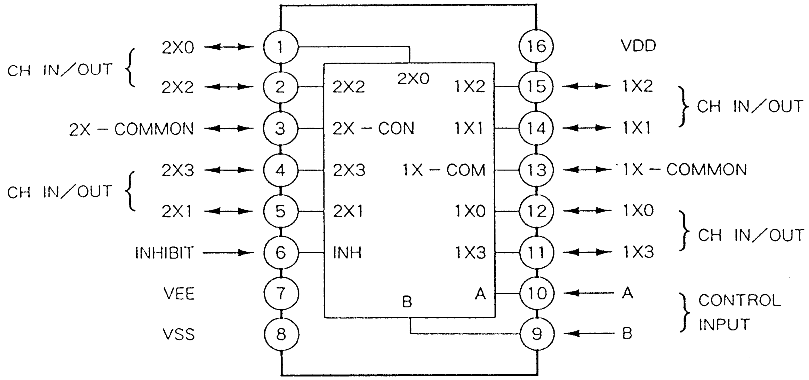
IC, BU4051B


VDD
16
3
COM
A
11
B
10
C
9
INH
6
LOGIC LEVEL CONVERTER
BINARY - TO - 8 DECODER
13
0
14
1
15
2
12
3
1
4
5
5
2
6
4
7
8
VSS
7
VEE

TRUTH TABLE

CONTROL INPUTS				"ON" CHANNEL
INHIBIT	C	B	A	
L	L	L	L	0
L	L	L	H	1
L	L	H	L	2
L	L	H	H	3
L	H	L	L	4
L	H	L	H	5
L	H	H	L	6
L	H	H	H	7
H	※	※	※	NOTE
※Don't Care				

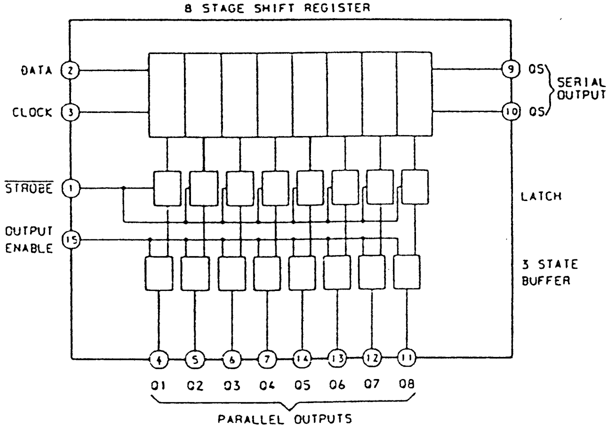
IC, BU4052B


CH IN/OUT
2X0
1
2X2
2
2X - COMMON
3
CH IN/OUT
2X3
4
2X1
5
INHIBIT
6
VEE
7
VSS
8
2X2
2X0
1X2
2X - CON
1X1
2X3
1X - COM
2X1
1X0
INH
1X3
B
A
16
VDD
15
1X2
14
1X1
CH IN/OUT
13
1X - COMMON
12
1X0
11
1X3
CH IN/OUT
10
A
9
B
CONTROL INPUT

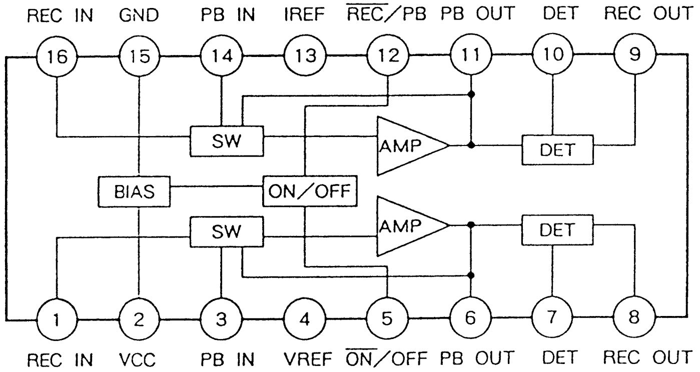
TRUTH TABLE

INHIBIT INPUT	CONTROL INPUT		SWITCHES BETWEEN CHANNEL INPUT/OUTPUT COMMON PINS			
INHIBIT	B	A	X0	X1	X2	X3
L	L	L	ON	OFF	OFF	OFF
L	L	H	OFF	ON	OFF	OFF
L	H	L	OFF	OFF	ON	OFF
L	H	H	OFF	OFF	OFF	ON
H	X	X	OFF	OFF	OFF	OFF

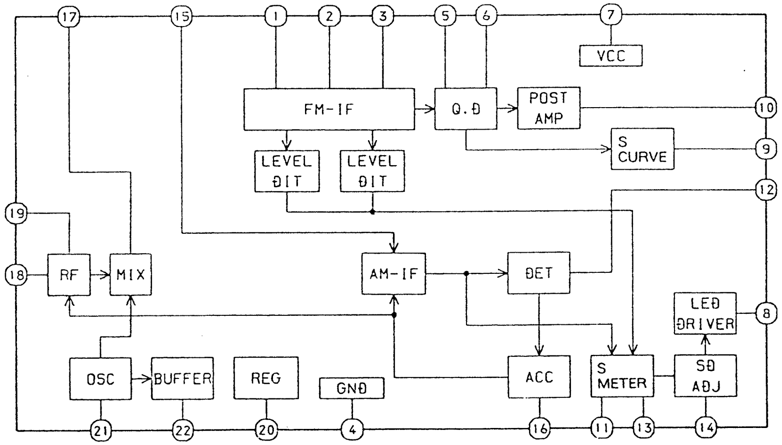
IC, BU4094B


8 STAGE SHIFT REGISTER
DATA
2
CLOCK
3
STROBE
1
OUTPUT ENABLE
15
9
OS
10
OS
SERIAL OUTPUT
LATCH
3 STATE BUFFER
4
5
6
7
14
13
12
11
O1
O2
O3
O4
O5
O6
O7
O8
PARALLEL OUTPUTS

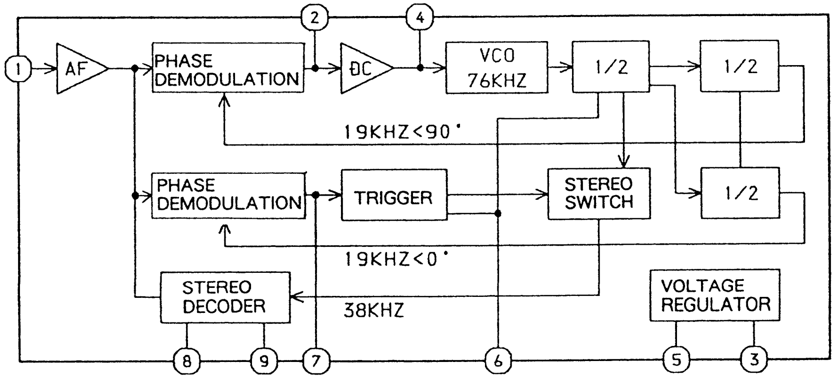
IC, HA12134A


REC IN
GND
PB IN
IREF
REC/PB
PB OUT
DET
REC OUT
16
15
14
13
12
11
10
9
SW
AMP
DET
BIAS
ON/OFF
SW
AMP
DET
1
2
3
4
5
6
7
8
REC IN
VCC
PB IN
VREF
ON/OFF
PB OUT
DET
REC OUT

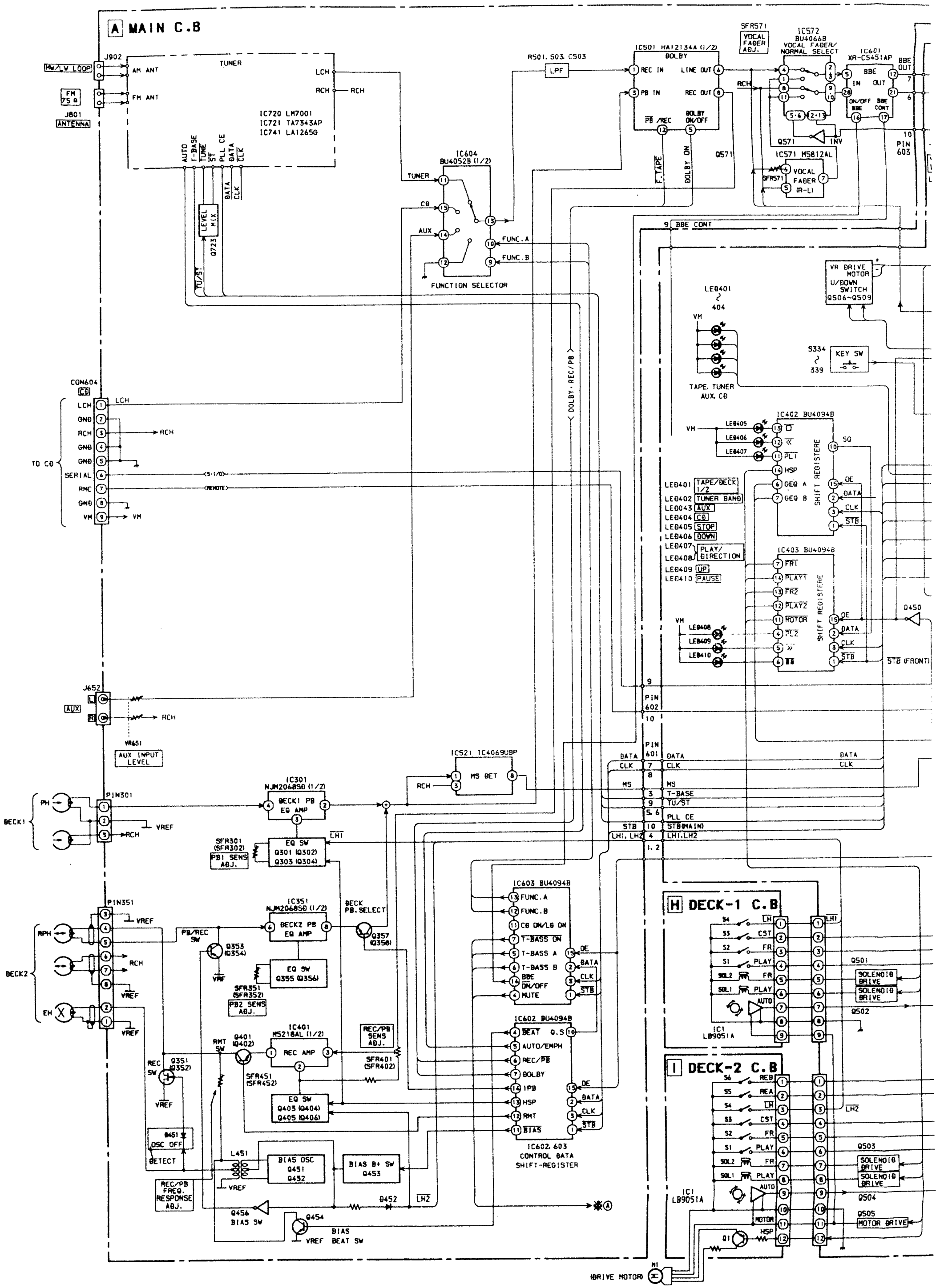
IC, LA1265


17
15
1
2
3
5
6
7
VCC
FM-IF
Q.D
POST AMP
10
S CURVE
9
LEVEL DIT
LEVEL DIT
12
19
18
RF
MIX
AM-IF
DET
LED DRIVER
8
OSC
BUFFER
REG
GND
ACC
S METER
SD ADJ
21
22
20
4
16
11
13
14

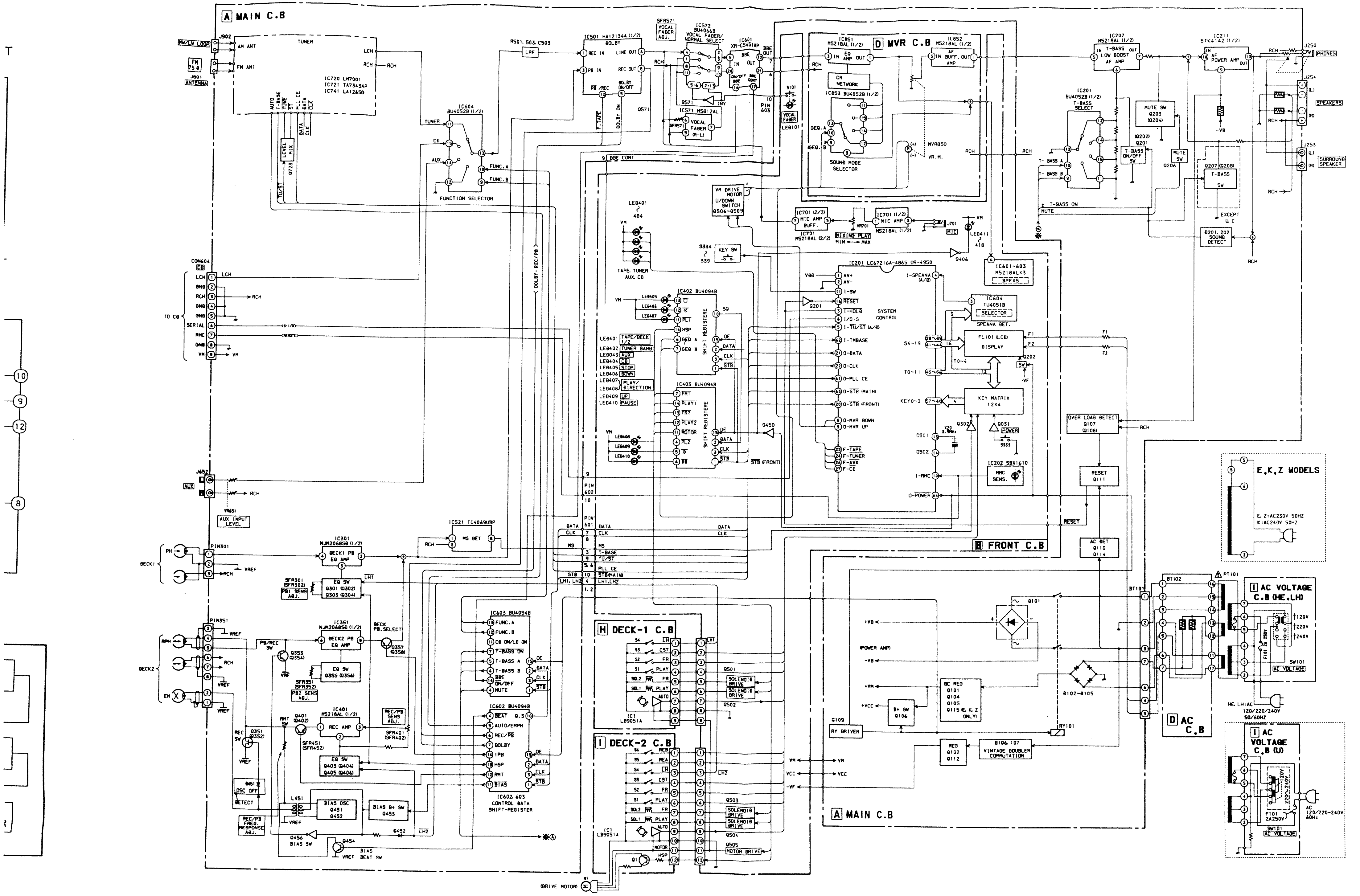
IC, TA7343AP


1
AF
2
4
PHASE DEMODULATION
DC
VCO 76KHZ
1/2
1/2
19KHZ<90°
PHASE DEMODULATION
TRIGGER
STEREO SWITCH
1/2
19KHZ<0°
STEREO DECODER
38KHZ
VOLTAGE REGULATOR
8
9
7
6
5
3

BLOCK DIAGRAM – 1


A MAIN C.B
MW/LW LOOP
FM 75Ω
J801 ANTENNA
J902
TUNER
AM ANT
FM ANT
LCH
RCH
IC720 LM7001
IC721 TA7343AP
IC741 LA1265D
AUTO
T-BASE
TUNE
ST
PLL CE
DATA
CLK
LEVEL MIX
Q723
TU/ST
R501, 503 C503
LPF
IC501 HA12134A (1/2)
DOLBY
REC IN
LINE OUT
PB IN
REC OUT
PB/REC
DOLBY ON/OFF
F.TAPE
DOLBY ON
Q571
SFR571 VOCAL FADER ADJ.
IC572 BU4066B VOCAL FADER/ NORMAL SELECT
IC601 XR-CS451AP
BBE
IN
OUT
ON/OFF BBE CONT
IC571 M5812AL
VOCAL FADER (R-L)
INV
PIN 603
IC604 BU4052B (1/2)
TUNER
CD
AUX
FUNC.A
FUNC.B
FUNCTION SELECTOR
BBE CONT
VR DRIVE MOTOR U/DOWN SWITCH Q506~Q509
LED401 ~ 404
VM
TAPE, TUNER AUX, CD
S334 ~ 339
KEY SW
DOLBY·REC/PB
CON604 CD
LCH
GND
RCH
GND
GND
SERIAL
RMC
GND
VM
TO CD
IC402 BU4094B
SHIFT REGISTER
IC403 BU4094B
SHIFT REGISTER
LED401 TAPE/DECK 1/2
LED402 TUNER BAND
LED043 AUX
LED404 CD
LED405 STOP
LED406 DOWN
LED407 PLAY/DIRECTION
LED408
LED409 UP
LED410 PAUSE
Q450
STB (FRONT)
J652
AUX
VR651 AUX INPUT LEVEL
PIN 602
PIN 601
DATA
CLK
MS
T-BASE
TU/ST
PLL CE
STB(MAIN)
LH1, LH2
IC521 IC4069UBP
MS DET
IC301 NJM2068SD (1/2)
DECK1 PB EQ AMP
PIN301
DECK1
EQ SW Q301 (Q302) Q303 (Q304)
SFR301 (SFR302) PB1 SENS ADJ.
PIN351
DECK2
IC351 NJM2068SD (1/2)
DECK2 PB EQ AMP
DECK PB. SELECT
Q357 (Q358)
PB/REC SW
Q353 (Q354)
EQ SW Q355 (Q356)
SFR351 (SFR352) PB2 SENS ADJ.
IC401 M5218AL (1/2)
REC AMP
Q401 (Q402)
RMT SW
REC/PB SENS ADJ.
SFR401 (SFR402)
SFR451 (SFR452)
EQ SW Q403 (Q404) Q405 (Q406)
REC SW Q351 (Q352)
Q451 OSC OFF DETECT
L451
BIAS OSC Q451 Q452
BIAS B+ SW Q453
REC/PB FREQ. RESPONSE ADJ.
Q456 BIAS SW
Q454
BIAS VREF BEAT SW
Q452
IC603 BU4094B
FUNC.A
FUNC.B
CD ON/LD ON
T-BASS ON
T-BASS A
T-BASS B
BBE ON/OFF
MUTE
IC602 BU4094B
BEAT
AUTO/EMPH
REC/PB
DOLBY
IPB
HSP
RMT
BIAS
IC602, 603 CONTROL DATA SHIFT-REGISTER
H DECK-1 C.B
IC1 LB9051A
Q501
SOLENOID DRIVE
Q502
I DECK-2 C.B
IC1 LB9051A
Q503
SOLENOID DRIVE
Q504
Q505 MOTOR DRIVE
M1 (DRIVE MOTOR)

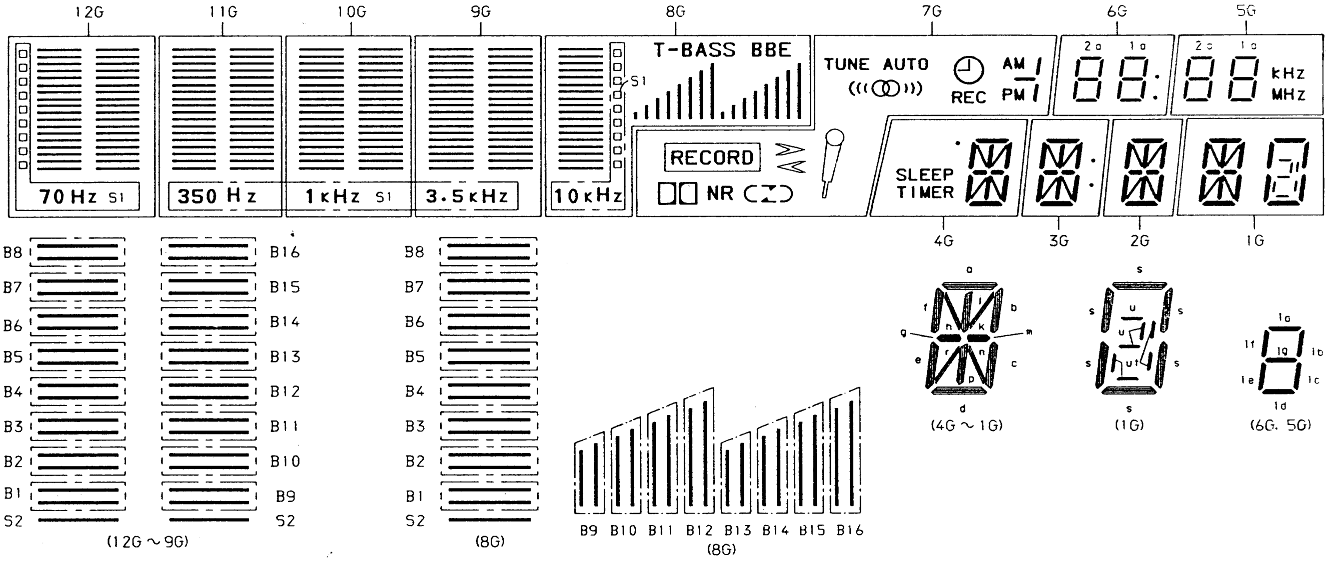
BLOCK DIAGRAM – 1


A MAIN C.B
TUNER
IC720 LM7001
IC721 TA7343AP
IC741 LA1265D
MW/LW LOOP
FM 75 Ω
J801 ANTENNA
J902
AM ANT
FM ANT
LCH
RCH
AUTO T-BASE TUNE ST PLL CE DATA CLK
LEVEL MIX
Q725
TU/ST
R501, 503, C503
LPF
IC501 HA12134A (1/2) DOLBY
REC IN
LINE OUT
PB IN
REC OUT
PB/REC
DOLBY ON/OFF
F.TAPE
DOLBY ON
Q571
SFR571 VOCAL FADER ADJ.
IC572 BU4066B VOCAL FADER/NORMAL SELECT
IC601 XR-C5451AP BBE
BBE OUT
ON/OFF BBE
BBE CONT
INV
IC571 M5812AL
VOCAL FADER (R-L)
S101
VOCAL FADER
LE8101
PIN 603
IC604 BU4052B (1/2)
TUNER
CD
AUX
FUNC.A
FUNC.B
FUNCTION SELECTOR
9 BBE CONT
D MVR C.B
IC851 M5218AL (1/2) EQ AMP OUT
IC852 M5218AL (1/2) AF BUFF. OUT AMP
CR NETWORK
IC853 BU4052B (1/2)
GEQ. A
GEQ. B
SOUND MODE SELECTOR
MVR850
VR.M.
IC202 M5218AL (1/2) T-BASS LOW BOOST AF AMP
IC201 BU4052B (1/2) T-BASS SELECT
T-BASS A
T-BASS B
MUTE SW Q203 (Q204)
Q202 Q201 T-BASS ON/OFF SW
MUTE SW Q206
Q207 (Q208) T-BASS SW
EXCEPT U.C
Q201, 202 SOUND DETECT
T-BASS ON
MUTE
IC211 STK4142 (1/2) AF POWER AMP
J250 PHONES
J254 SPEAKERS
J253 SURROUND SPEAKER
-VB
VR DRIVE MOTOR U/DOWN SWITCH Q506~Q509
IC701 (2/2) MIC AMP BUFF.
IC701 M5218AL (2/2)
VR701
IC701 (1/2) MIC AMP
M5218AL (1/2)
MIXING PLAY MIN ↔ MAX
J701 MIC
LE8411~416
Q406
IC601~603 M5218AL×3 BPF×5
LE8401~404
TAPE, TUNER AUX, CD
S334~339 KEY SW
IC201 LC67216A-4865 OR-4950
AV+
AV-
I-SW
RESET
T-HOLD
I/O-S
I-TU/ST (A/D)
I-TMBASE
O-DATA
O-CLK
O-PLL CE
O-STB (MAIN)
O-STB (FRONT)
O-MVR DOWN
O-MVR UP
F-TAPE
F-TUNER
F-AVX
F-CD
SYSTEM CONTROL
I-SPEANA (A/D)
OSC1
OSC2
I-RMC
O-POWER
IC604 TU4051B SELECTOR
SPEANA DET.
FL101 (LCD) DISPLAY
KEY MATRIX 12×4
Q202 SW
X201
Q302
D031 POWER
S333
IC202 SBX1610 RMC SENS.
OVER LOAD DETECT Q107 (Q108)
RESET Q111
AC DET Q110 Q114
B FRONT C.B
IC402 BU4094B SHIFT REGISTERE
IC403 BU4094B SHIFT REGISTERE
LE8405 LE8406 LE8407
LE8401 TAPE/DECK 1/2
LE8402 TUNER BAND
LE8403 AUX
LE8404 CD
LE8405 STOP
LE8406 DOWN
LE8407 PLAY/DIRECTION
LE8409 UP
LE8410 PAUSE
Q450
STB (FRONT)
CON604 CD
LCH GND RCH GND GND SERIAL RMC GND VM
TO CD
(S-I/O)
(REMOTE)
DOLBY·REC/PB
J652 AUX
VR651 AUX INPUT LEVEL
PIN 602
PIN 601
DATA CLK MS T-BASE TU/ST PLL CE STB(MAIN) LH1, LH2
IC521 TC4069UBP MS DET
PIN301
DECK1
IC301 NJM2068SD (1/2) DECK1 PB EQ AMP
VREF
SFR301 (SFR302) PB1 SENS ADJ.
EQ SW Q301 (Q302) Q303 (Q304)
PIN351
DECK2
IC351 NJM2068SD (1/2) DECK2 PB EQ AMP
PB/REC SW
Q353 (Q354)
DECK PB. SELECT Q357 (Q358)
EQ SW Q355 (Q356)
SFR351 (SFR352) PB2 SENS ADJ.
IC401 M5218AL (1/2) REC AMP
RMT SW Q401 (Q402)
REC/PB SENS ADJ.
SFR401 (SFR402)
SFR451 (SFR452)
EQ SW Q403 (Q404) Q405 (Q406)
REC SW Q351 (Q352)
D451 OSC OFF DETECT
L451
BIAS OSC Q451 Q452
BIAS B+ SW Q453
REC/PB FREQ. RESPONSE ADJ.
Q456 BIAS SW
Q454 BIAS VREF BEAT SW
Q452
IC603 BU4094B
FUNC.A FUNC.B CD ON/LD ON T-BASS ON T-BASS A T-BASS B BBE ON/OFF MUTE
IC602 BU4094B
BEAT AUTO/EMPH REC/PB DOLBY IPB HSP RMT BIAS
IC602, 603 CONTROL DATA SHIFT-REGISTER
H DECK-1 C.B
S4 S3 S2 S1 SOL2 SOL1 CST FR PLAY AUTO
IC1 LB9051A
Q501 SOLENOID DRIVE
Q502
I DECK-2 C.B
REB REA LH CST FR PLAY AUTO MOTOR HSP
Q503 SOLENOID DRIVE
Q504
Q505 MOTOR DRIVE
Q1
M1 (DRIVE MOTOR)
+VB
(POWER AMP)
-VB
+VM
+VCC
B+ SW Q106
DC REG Q101 Q104 Q105 Q115 (E, K, Z ONLY)
Q109 RY DRIVER
RY101
REG Q102 Q112
D106, 107 VINTAGE DOUBLER COMMUTATION
D101
D102~D105
VM VCC -VF
A MAIN C.B
BT101
BT102
PT101
I AC VOLTAGE C.B (HE, LH)
120V 220V 240V
F101 2A 250V
SW101 AC VOLTAGE
HE, LH: AC 120/220/240V 50/60Hz
D AC C.B
E, K, Z MODELS
E, Z: AC230V 50HZ
K: AC240V 50HZ
I AC VOLTAGE C.B (U)
120V 220~240V
F101 2A250V
AC 120/220-240V 60Hz
SW101 AC VOLTAGE

SEGMENT

FL101

GRID ASSIGNMENT



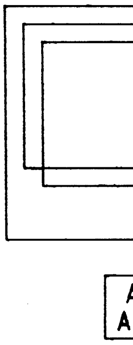
12G
11G
10G
9G
8G
7G
6G
5G
T-BASS BBE
S1
TUNE AUTO
((ꝏ))
AM
PM
REC
2a 1a
2a 1a
kHz
MHz
RECORD
NR
SLEEP
TIMER
70 Hz S1
350 Hz
1kHz S1
3.5kHz
10kHz
4G
3G
2G
1G
B8 B7 B6 B5 B4 B3 B2 B1 S2
B16 B15 B14 B13 B12 B11 B10 B9 S2
(12G ~ 9G)
B8 B7 B6 B5 B4 B3 B2 B1 S2
(8G)
B9 B10 B11 B12 B13 B14 B15 B16
(8G)
a b c d e f g h j k m n r p
(4G ~ 1G)
s t u
(1G)
1a 1b 1c 1d 1e 1f 1g
(6G. 5G)

ANODE CONNECTION

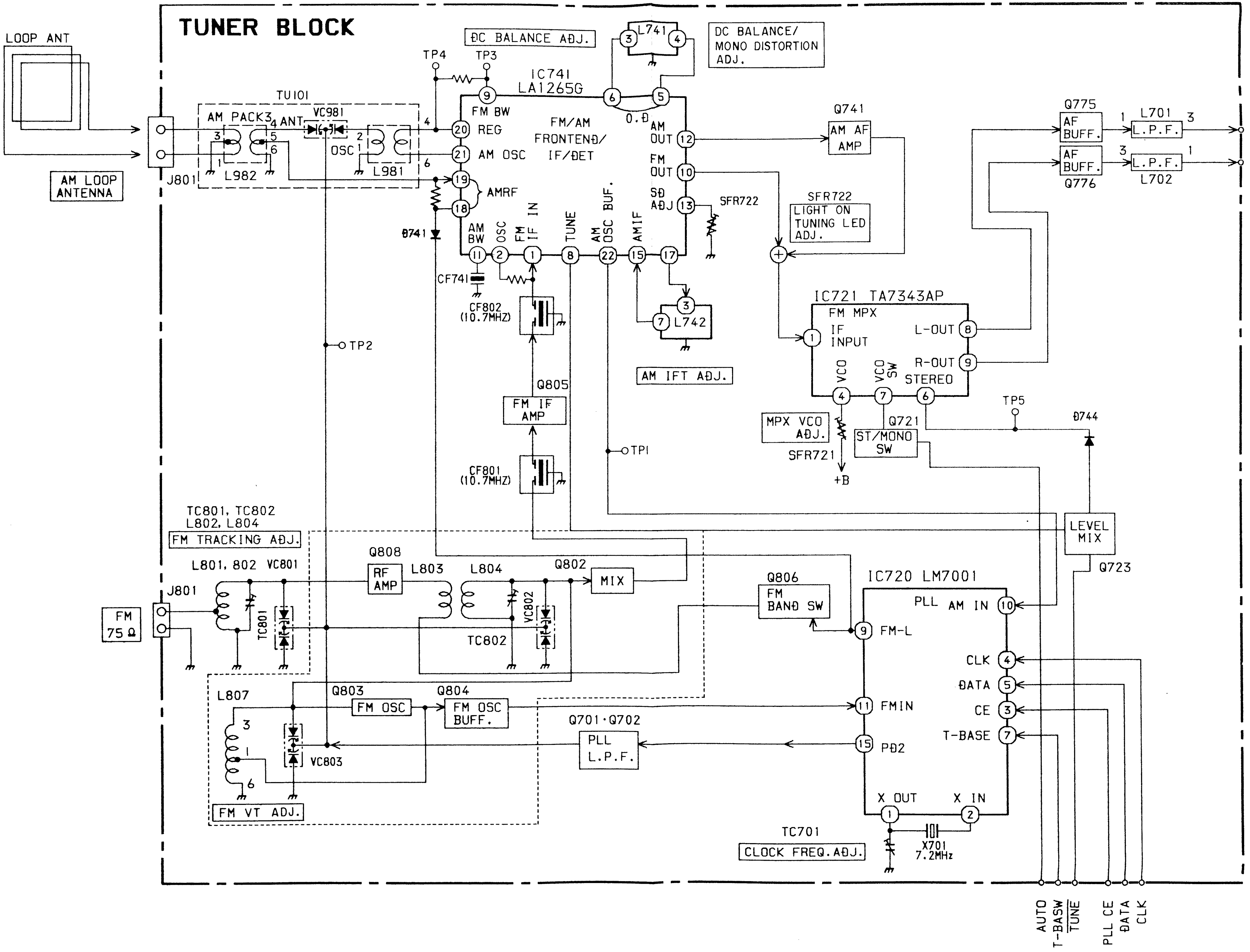
	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B1	B1	B1	B1	B1	**RECORD**	2a	2a	a	a	a	a
P2	B2	B2	B2	B2	B2	**◻◻NR**	2b	2b	b	b	b	b
P3	B3	B3	B3	B3	B3	(	2c	2c	c	c	c	c
P4	B4	B4	B4	B4	B4	)	2d	2d	d	d	d	d
P5	B5	B5	B5	B5	B5	≥	2e	2e	e	e	e	e
P6	B6	B6	B6	B6	B6	≤	2f	2f	f	f	f	f
P7	B7	B7	B7	B7	B7	🎤	2g	2g	g	g	g	g
P8	B8	B8	B8	B8	B8	**TUNE**	●	**kHz**	h	h	h	h
P9	B9	B9	B9	B9	B9	**AUTO**	1a	1a	j	j	j	j
P10	B10	B10	B10	B10	B10	**((ꝏ))**	1b	1b	k	k	k	k
P11	B11	B11	B11	B11	B11	🕘	1c	1c	m	m	m	m
P12	B12	B12	B12	B12	B12	**REC**	1d	1d	n	n	n	n
P13	B13	B13	B13	B13	B13	**AM**	1e	1e	r	r	r	r
P14	B14	B14	B14	B14	B14	**PM**	1f	1f	●	●	–	s
P15	B15	B15	B15	B15	B15	/	1g	1g	**SLEEP**	●	–	t
P16	B16	B16	B16	B16	B16	▭	●	**MHz**	**TIMER**	–	–	u
P17	S1	S1	S1	S1	S1	–	–	–	–	–	–	–
P18	S2	S2	S2	S2	S2	–	–	–	–	–	–	–
P19	–	–	–	–	–	⇄	–	–	–	–	–	–
P20	–	–	–	–	**T-BASS**	–	–	–	–	–	–	–
P21	–	–	–	–	**BBE**	–	–	–	–	–	–	–
P22	–	–	–	–	–	–	–	–	p	p	p	p

BLOCK D

LOOP AN



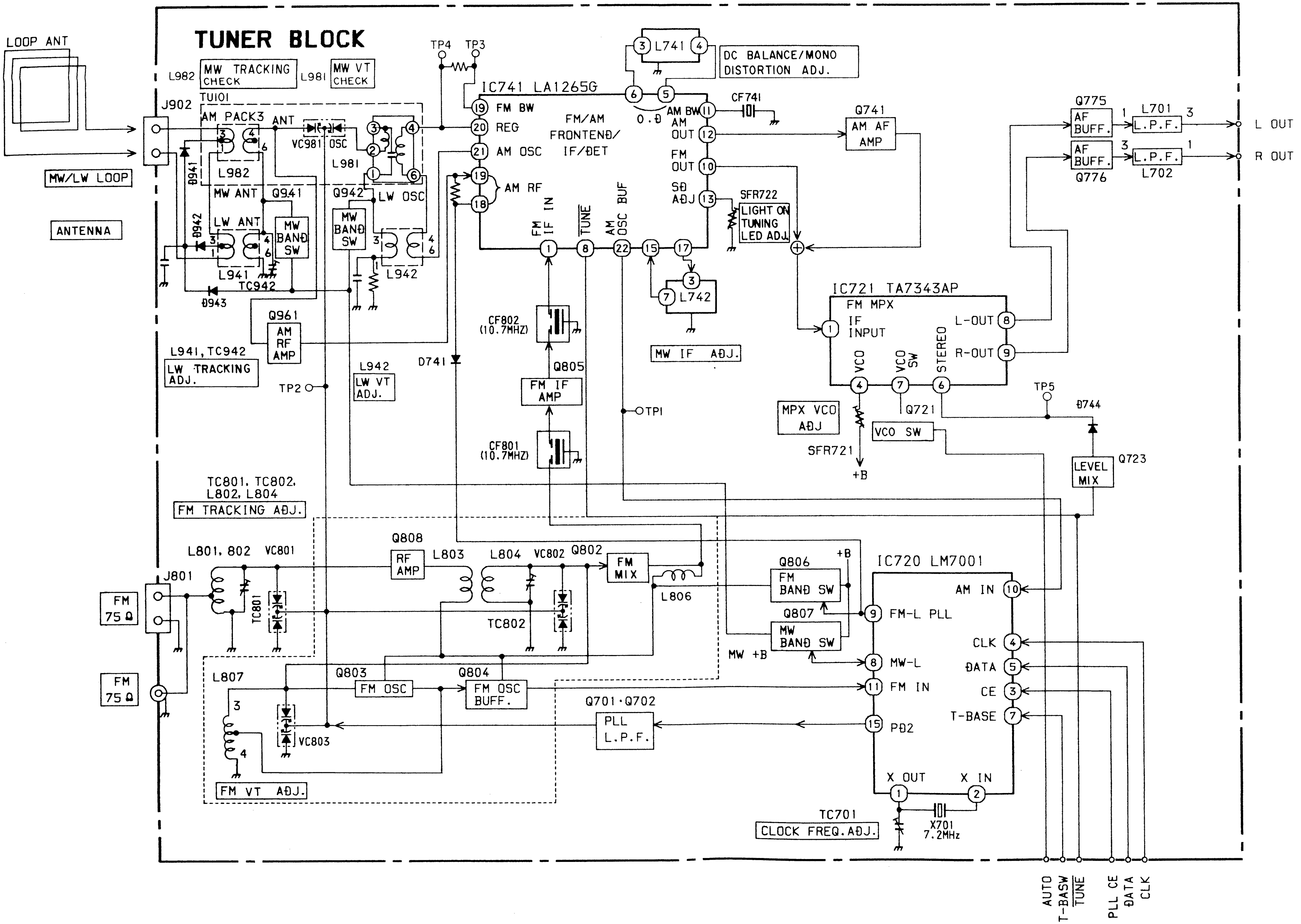
BLOCK DIAGRAM – 2 (HE, LH, U MODELS)


TUNER BLOCK
LOOP ANT
AM LOOP ANTENNA
J801
TU101
AM PACK
3
4 ANT
5
6
1
L982
VC981
OSC
2
1
6
L981
4
DC BALANCE ADJ.
TP4
TP3
IC741
LA1265G
L741
3
4
DC BALANCE/ MONO DISTORTION ADJ.
9 FM BW
20 REG
21 AM OSC
19
18
AMRF
FM/AM FRONTEND/ IF/DET
0.D
6
5
AM OUT 12
FM OUT 10
SD ADJ 13
SFR722
AM BW 11
OSC 2
FM IF IN 1
TUNE 8
AM OSC BUF. 22
AMIF 15
17
D741
CF741
CF802 (10.7MHZ)
CF801 (10.7MHZ)
Q805
FM IF AMP
TP2
TP1
L742
3
7
AM IFT ADJ.
Q741
AM AF AMP
SFR722
LIGHT ON TUNING LED ADJ.
IC721 TA7343AP
FM MPX
1 IF INPUT
L-OUT 8
R-OUT 9
STEREO 6
VCO 4
VCO SW 7
MPX VCO ADJ.
SFR721
+B
Q721
ST/MONO SW
TP5
D744
LEVEL MIX
Q723
Q775
AF BUFF.
AF BUFF.
Q776
1
L701
3
L.P.F.
3
1
L.P.F.
L702
L OUT
R OUT
TC801, TC802
L802, L804
FM TRACKING ADJ.
L801, 802
VC801
J801
FM 75 Ω
TC801
Q808
RF AMP
L803
L804
Q802
MIX
VC802
TC802
Q806
FM BAND SW
IC720 LM7001
PLL
AM IN 10
9 FM-L
CLK 4
DATA 5
CE 3
T-BASE 7
11 FMIN
15 PD2
X OUT 1
X IN 2
TC701
CLOCK FREQ.ADJ.
X701 7.2MHz
L807
3
1
6
VC803
FM VT ADJ.
Q803
FM OSC
Q804
FM OSC BUFF.
Q701·Q702
PLL L.P.F.
AUTO
T-BASW
TUNE
PLL CE
DATA
CLK

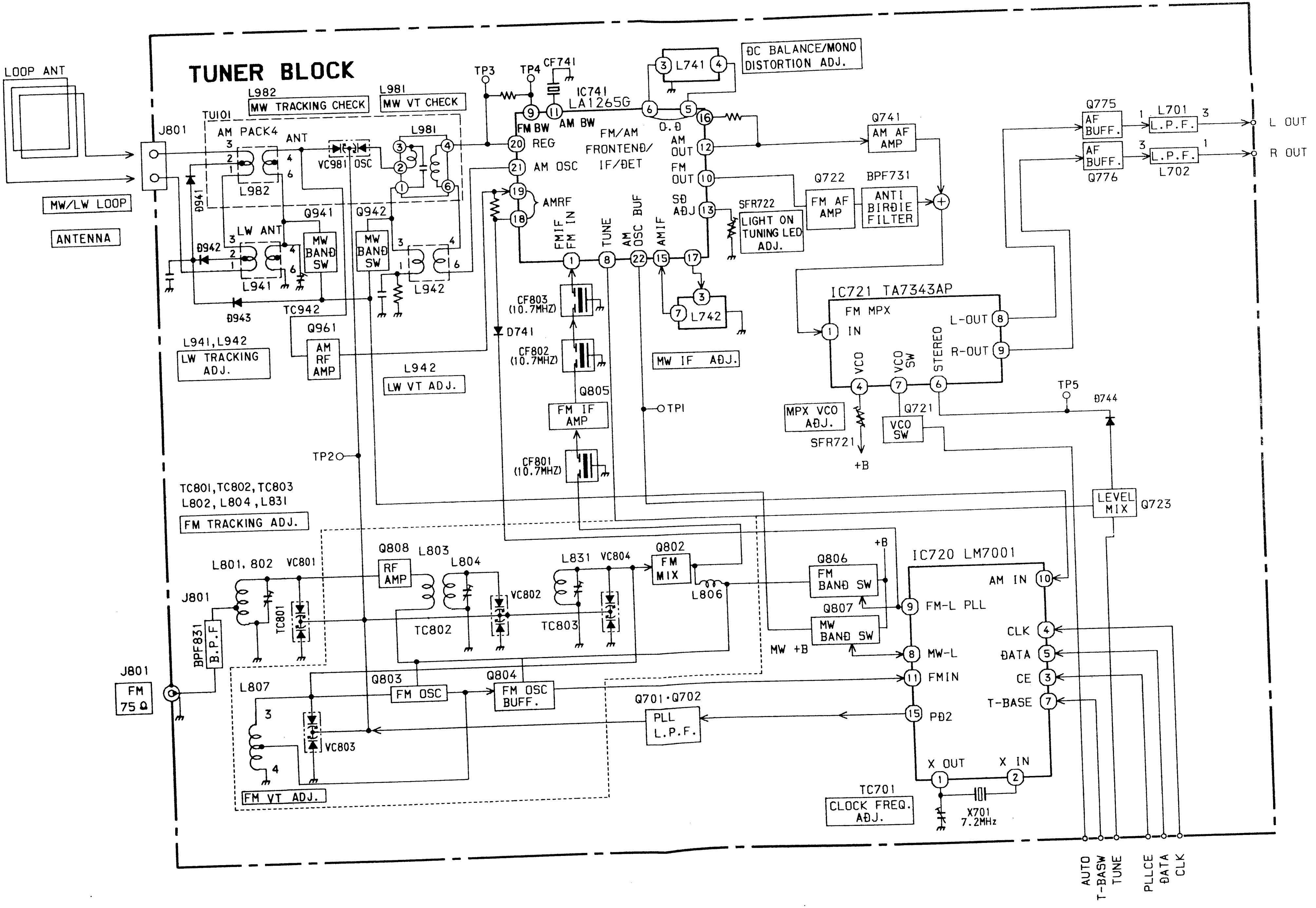
BLOCK DIAGRAM – 3 (E, K MODELS)

UT

UT


TUNER BLOCK
LOOP ANT
MW/LW LOOP
ANTENNA
J902
TU101
AM PACK3
L982
MW TRACKING CHECK
L981
MW VT CHECK
ANT
VC981
OSC
MW ANT
Q941
LW ANT
MW BAND SW
Q942
LW OSC
D941
D942
D943
L941
TC942
L942
Q961
AM RF AMP
L941, TC942
LW TRACKING ADJ.
L942
LW VT ADJ.
TP2
TP4
TP3
IC741 LA1265G
FM BW
REG
AM OSC
AM RF
FM/AM FRONTEND/ IF/DET
FM IF IN
TUNE
AM OSC BUF
AM BW
AM OUT
FM OUT
SD ADJ
L741
DC BALANCE/MONO DISTORTION ADJ.
O.D
CF741
SFR722
LIGHT ON TUNING LED ADJ.
L742
MW IF ADJ.
D741
CF802 (10.7MHZ)
Q805
FM IF AMP
CF801 (10.7MHZ)
TP1
Q741
AM AF AMP
Q775
AF BUFF.
L701
L.P.F.
L OUT
AF BUFF.
Q776
L.P.F.
L702
R OUT
IC721 TA7343AP
FM MPX
IF INPUT
L-OUT
R-OUT
VCO
VCO SW
STEREO
MPX VCO ADJ
SFR721
+B
Q721
VCO SW
TP5
D744
Q723
LEVEL MIX
TC801, TC802, L802, L804
FM TRACKING ADJ.
L801, 802
VC801
Q808
RF AMP
L803
L804
VC802
Q802
FM MIX
L806
TC801
TC802
J801
FM 75 Ω
FM 75 Ω
L807
Q803
FM OSC
Q804
FM OSC BUFF.
VC803
FM VT ADJ.
Q701·Q702
PLL L.P.F.
Q806
FM BAND SW
+B
Q807
MW BAND SW
MW +B
IC720 LM7001
AM IN
FM-L PLL
CLK
MW-L
DATA
FM IN
CE
T-BASE
PD2
X OUT
X IN
TC701
CLOCK FREQ. ADJ.
X701 7.2MHz
AUTO
T-BASW
TUNE
PLL CE
DATA
CLK

BLOCK DIAGRAM – 4 (Z MODELS)


TUNER BLOCK
LOOP ANT
MW/LW LOOP
ANTENNA
J801
TU101
AM PACK4
ANT
L982
MW TRACKING CHECK
L981
MW VT CHECK
VC981
OSC
L982
D941
D942
LW ANT
L941
D943
Q941
MW BAND SW
Q942
MW BAND SW
L942
TC942
Q961
AM RF AMP
L941,L942
LW TRACKING ADJ.
L942
LW VT ADJ.
TP3
TP4
CF741
IC741
LA1265G
FM BW
AM BW
REG
AM OSC
AMRF
FM/AM FRONTEND/ IF/DET
O.D
AM OUT
FM OUT
SD ADJ
FMIF
FM IN
TUNE
AM OSC BUF
AMIF
L741
DC BALANCE/MONO DISTORTION ADJ.
SFR722
LIGHT ON TUNING LED ADJ.
L742
MW IF ADJ.
CF803 (10.7MHZ)
CF802 (10.7MHZ)
D741
Q805
FM IF AMP
CF801 (10.7MHZ)
TP1
TP2
Q741
AM AF AMP
Q722
FM AF AMP
BPF731
ANTI BIRDIE FILTER
Q775
AF BUFF.
AF BUFF.
Q776
L701
L.P.F.
L702
L.P.F.
L OUT
R OUT
IC721 TA7343AP
FM MPX
IN
L-OUT
R-OUT
VCO
VCO SW
STEREO
MPX VCO ADJ.
SFR721
+B
Q721
VCO SW
TP5
D744
LEVEL MIX
Q723
TC801,TC802,TC803
L802, L804, L831
FM TRACKING ADJ.
L801, 802
VC801
J801
BPF831 B.P.F.
TC801
FM 75 Ω
Q808
RF AMP
L803
L804
VC802
TC802
L831
VC804
TC803
Q802
FM MIX
L806
L807
Q803
FM OSC
Q804
FM OSC BUFF.
VC803
FM VT ADJ.
Q701·Q702
PLL L.P.F.
Q806
FM BAND SW
Q807
MW BAND SW
+B
MW +B
IC720 LM7001
AM IN
FM-L PLL
CLK
MW-L
DATA
FMIN
CE
T-BASE
PD2
X OUT
X IN
TC701
CLOCK FREQ. ADJ.
X701
7.2MHz
AUTO
T-BASW
TUNE
PLLCE
DATA
CLK

IC DESCRIPTION

IC, LC67216A－4950

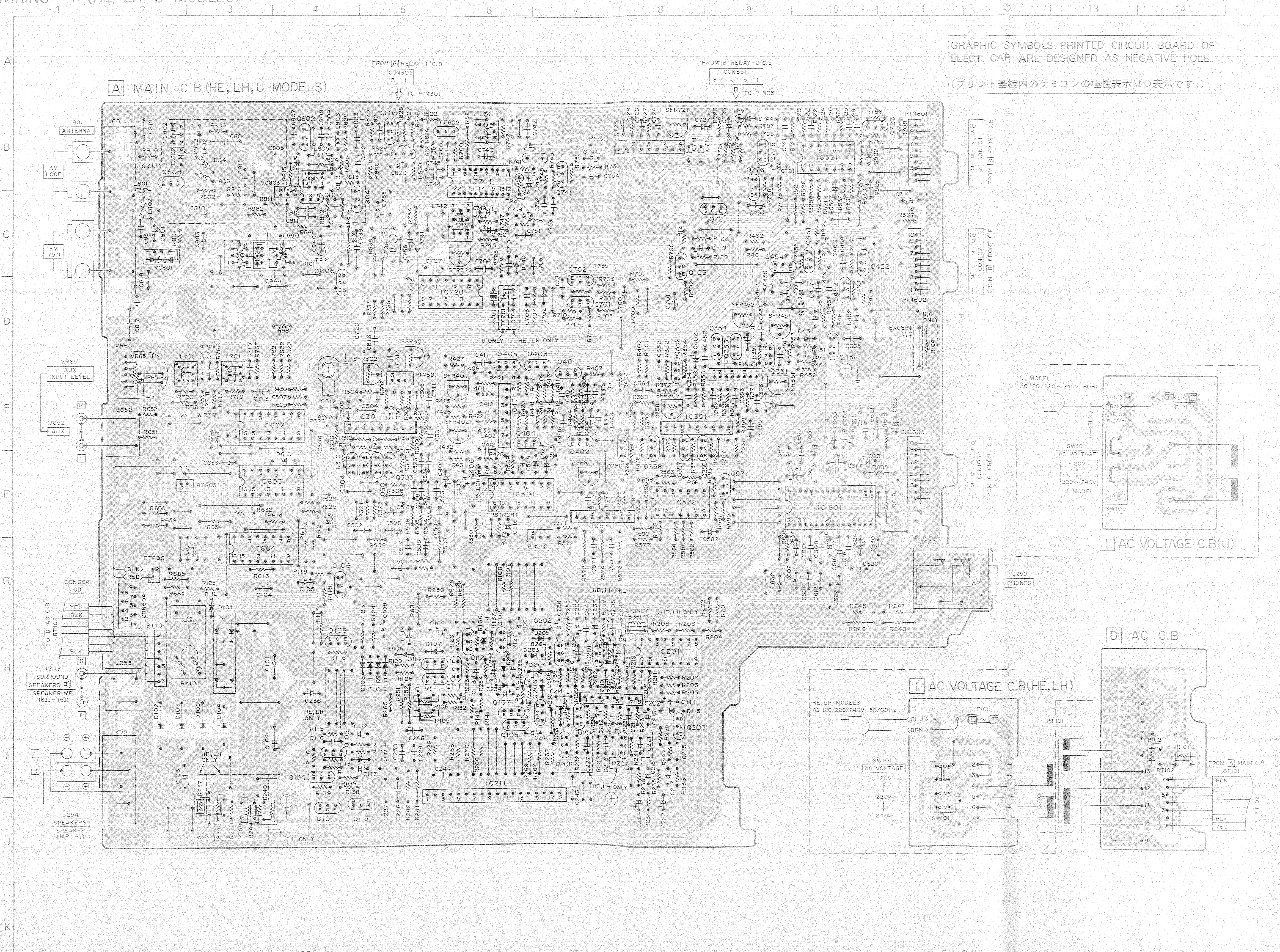
Pin No.	Pin Name	I／O	Description
1	AV+	I	A/D converter reference voltage (positive).
2	AV－	I	A/D converter reference voltage (negative).
3	I－$\overline{\text{HOLD}}$	I	When the AC power is not supplied and the input is "L", the controller is held (clock stop and memory maintain).
4	I－SPEANA (A／D)	I	Analog input for the spectrum analyzer.
5	I－$\overline{\text{TUNE}}$／$\overline{\text{ST}}$ (A／D)	I	Signal input while the tuner is receiving signals and the stereo system signal.
6	I／O－$\overline{\text{SERIAL}}$	I／O	For communication with CD.
7	I－TM BASE	I	Time base input for clock (8 Hz).
8	O－MVR DOWN	O	Motor VOL control.
9	O－MVR UP		
10	I－RMC	I	Remote control signal.
11	I－SW (A／D)	I	VOCAL FADER／DEMO／Mute DISP keys 1, 2 and 3 input.
12	VSS	—	GND
13	OSC 1	—	3.9 MHz oscillation circuit.
14	OSC 2	—	
15	VDD	—	Power supply.
16	$\overline{\text{RESET}}$	I	Reset input.
17	X1	—	Sub clock terminal (Not used).
18	X2	—	
19	TEST	—	It is connected to GND.
20	O－$\overline{\text{STB}}$ (FRONT)	O	Shift register (4094) strobe signal (PWB and FRONT).
21	O－DATA	O	Serial data for the shift register PLL IC.
22	O－CLK	O	Serial data clock signal for the shift register PLL IC.
23	F－$\overline{\text{TAPE}}$	O	For lighting TAPE LED.
24	F－$\overline{\text{TUNER}}$	O	For lighting TUNER LED.
25	NC	—	————————
26	F－$\overline{\text{AUX}}$	O	For lighting AUX LED.
27	F－$\overline{\text{CD}}$	O	For lighting CD LED.
28 ∫ 39	S4 ～ S15	O	FL display segment output.
40	－VP	I	40. FL display power (negative).
41 ∫ 44	S16 ～ S19	O	FL display segment output.
45 ∫ 56	T11 ～ T0	O	FL display digit output.
57 ∫ 60	KEY 0 ～ KEY 3	I	Key matrix data input.

Pin No.	Pin Name	I／O	Description
61	O－PLLCE	O	PLL IC chip enable output for the tuner.
62	VOCAL FADER	O	For Vocal fader control.
63	O－$\overline{\text{STB}}$ (MAIN)	O	Shift register (4094) strobe signal (PWB and MAIN).
64	O－$\overline{\text{POWER}}$	O	Power ON/OFF control.

IC, LM7001

Pin No.	Pin Name	I／O	Description
1 2	X－OUT X－IN	—	Connected to the crystal logic oscillator.
3 4 5	CE CLK DATA	I	Signal is transmitted from the CPU (microcomputer) by operating the key. Active "H".
6	SYC	—	OPEN
7	T－BASE	O	8 Hz output terminal for the clock.
8	MW－L	O	"L" level is output when receiving MW.
9	FM－L	O	"L" level is output when receiving FM.
10	AM IN	I	AM station oscillation signal input terminal.
11	FM IN	I	FM station oscillation signal input terminal.
12 13	VDD1 VDD2	—	Power terminal. 5.6 V
14	PD1	—	OPEN.
15	PD2	O	PLL charge pump output terminal.
16	VSS	—	GND terminal.

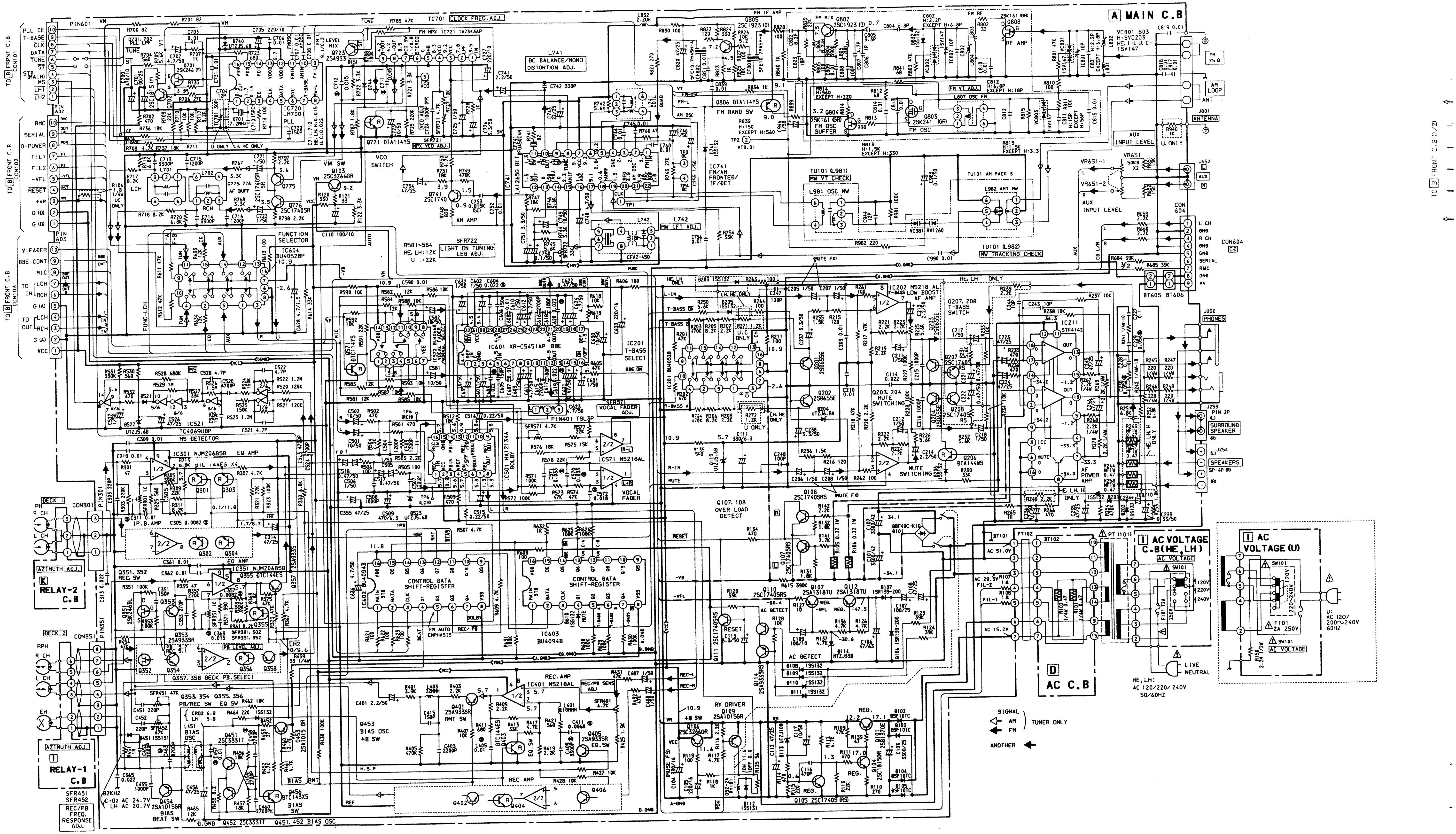
WIRING – 1 (HE, LH, U MODELS)


A MAIN C.B (HE, LH, U MODELS)
FROM G RELAY-1 C.B
CON301
TO PIN301
FROM H RELAY-2 C.B
CON351
TO PIN351
J801
ANTENNA
AM LOOP
FM 75Ω
VR651
AUX
INPUT LEVEL
J652
AUX
R
L
CON604
CD
TO D AC C.B BT102
YEL
BLK
J253
SURROUND SPEAKERS
SPEAKER IMP: 16Ω + 16Ω
J254
SPEAKERS
SPEAKER IMP: 6Ω
HE, LH ONLY
U ONLY
U, C ONLY
EXCEPT U, C
FROM B FRONT C.B
CON101
CON102
CON103
PIN601
PIN602
PIN603
J250
PHONES
I AC VOLTAGE C.B(U)
U MODEL
AC 120/220~240V 60Hz
BLU
BRN
BLK
F101
SW101
AC VOLTAGE
120V
220~240V
D AC C.B
I AC VOLTAGE C.B(HE, LH)
HE, LH MODELS
AC 120/220/240V 50/60Hz
120V
220V
240V
PT101
BT102
FROM A MAIN C.B
BT101
FT102

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

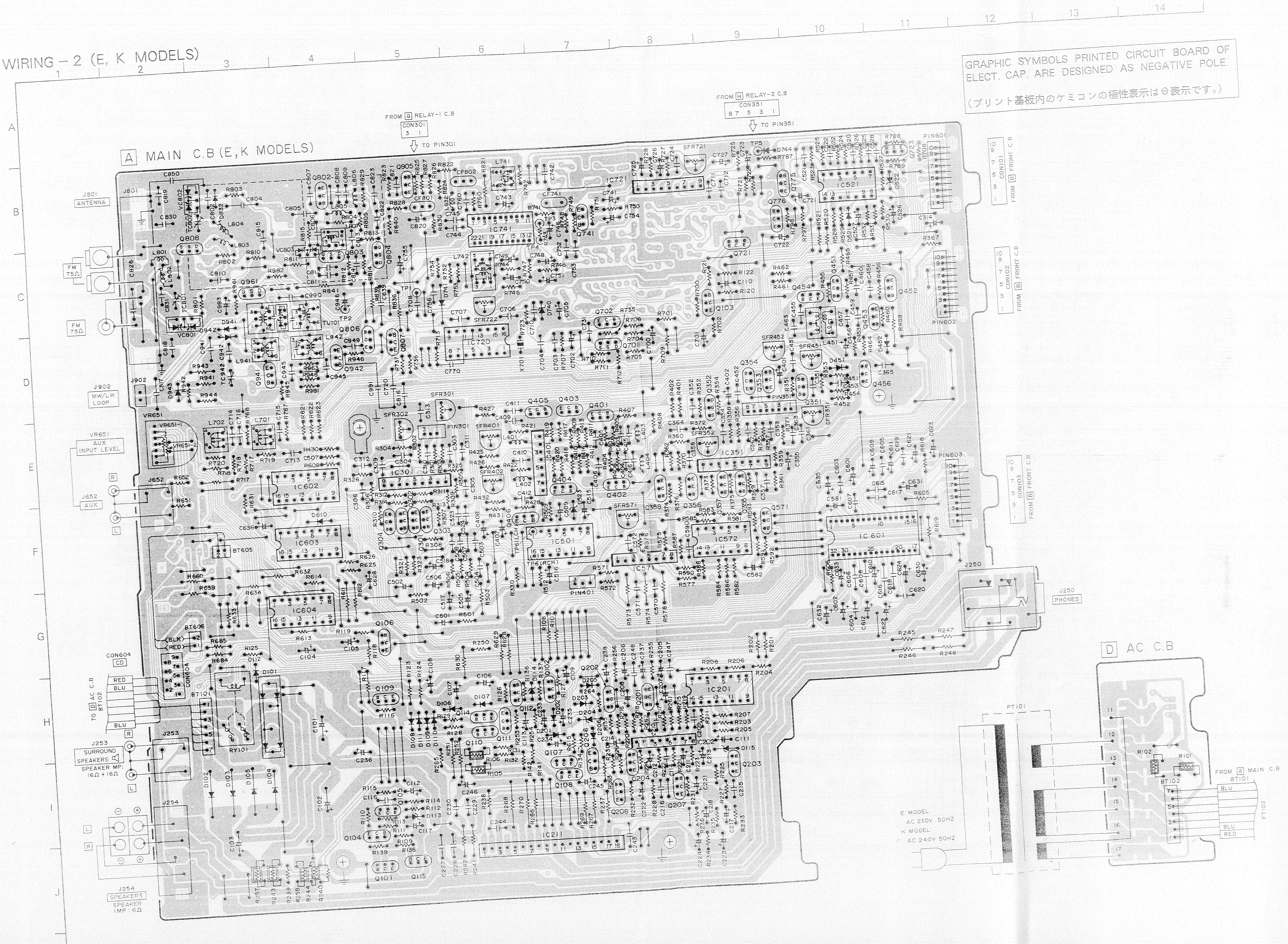
（プリント基板内のケミコンの極性表示は⊖表示です。）

SCHEMATIC DIAGRAM – 1 (HE, LH, U MODELS)


A MAIN C.B
TO B FRONT C.B CON101
TO B FRONT C.B CON102
TO B FRONT C.B CON103
TO B FRONT C.B (1/2)
PLL CE
T-BASE
CLK
DATA
TUNE
ST
MS
LH1
LH2
RMC
SERIAL
O-POWER
FIL1
FIL2
-VFL
RESET
+VM
G (D)
V.FADER
BBE CONT
MIC
TO IN LCH RCH
TO OUT LCH RCH
VCC
CLOCK FREQ. ADJ.
FM MPX IC721 TA7343AP
BC BALANCE/MONO DISTORTION ADJ.
IC720 LM7001 PLL
VCO SWITCH
MPX VCO ADJ.
VM SW
AM AMP
LIGHT ON TUNING LED ADJ.
FUNCTION SELECTOR
IC604 BU4052BP
IC601 XR-C5451AP BBE
IC741 FM/AM FRONTEND/IF/DET
MW IFT ADJ.
MW VT CHECK
MW TRACKING CHECK
TU101 AM PACK 3
FM VT ADJ.
FM OSC BUFFER
FM OSC
FM BAND SW
RF AMP
FM MIX
FM 75Ω
AM LOOP ANT
ANTENNA
AUX INPUT LEVEL
AUX INPUT LEVEL
U ONLY
HE, LH ONLY
IC202 M5218AL T-BASS LOW BOOST AF AMP
IC201 T-BASS SELECT
T-BASS SWITCH
IC211 STK4142
MUTE SWITCHING
POWER AMP
PHONES
SURROUND SPEAKER
SPEAKERS
IC521 TC4069UBP
MS DETECTOR
IC301 NJM2068SD EQ AMP
IC351 NJM2068SD
REC. SW
DECK 1
DECK 2
AZIMUTH ADJ.
K RELAY-2 C.B
I RELAY-1 C.B
PB LEVEL ADJ.
DECK PB. SELECT
IC501 HA12134A DOLBY
IC571 M5218AL VOCAL FADER
VOCAL FADER ADJ.
IC602 BU4094B CONTROL DATA SHIFT-REGISTER
IC603 BU4094B CONTROL DATA SHIFT-REGISTER
FM AUTO EMPHASIS
REC. AMP IC401 M5218AL
REC/PB SENS ADJ.
PB/REC SW EQ SW
BIAS OSC
RMT SW
EQ. SW
REC/PB FREQ. RESPONSE ADJ.
OVER LOAD DETECT
RY DRIVER
AC DETECT
REG.
I AC VOLTAGE C.B(HE,LH)
I AC VOLTAGE (U)
AC VOLTAGE
D AC C.B
LIVE NEUTRAL
HE, LH: AC 120/220/240V 50/60HZ
U: AC 120/200~240V 60HZ
SIGNAL AM FM TUNER ONLY
ANOTHER

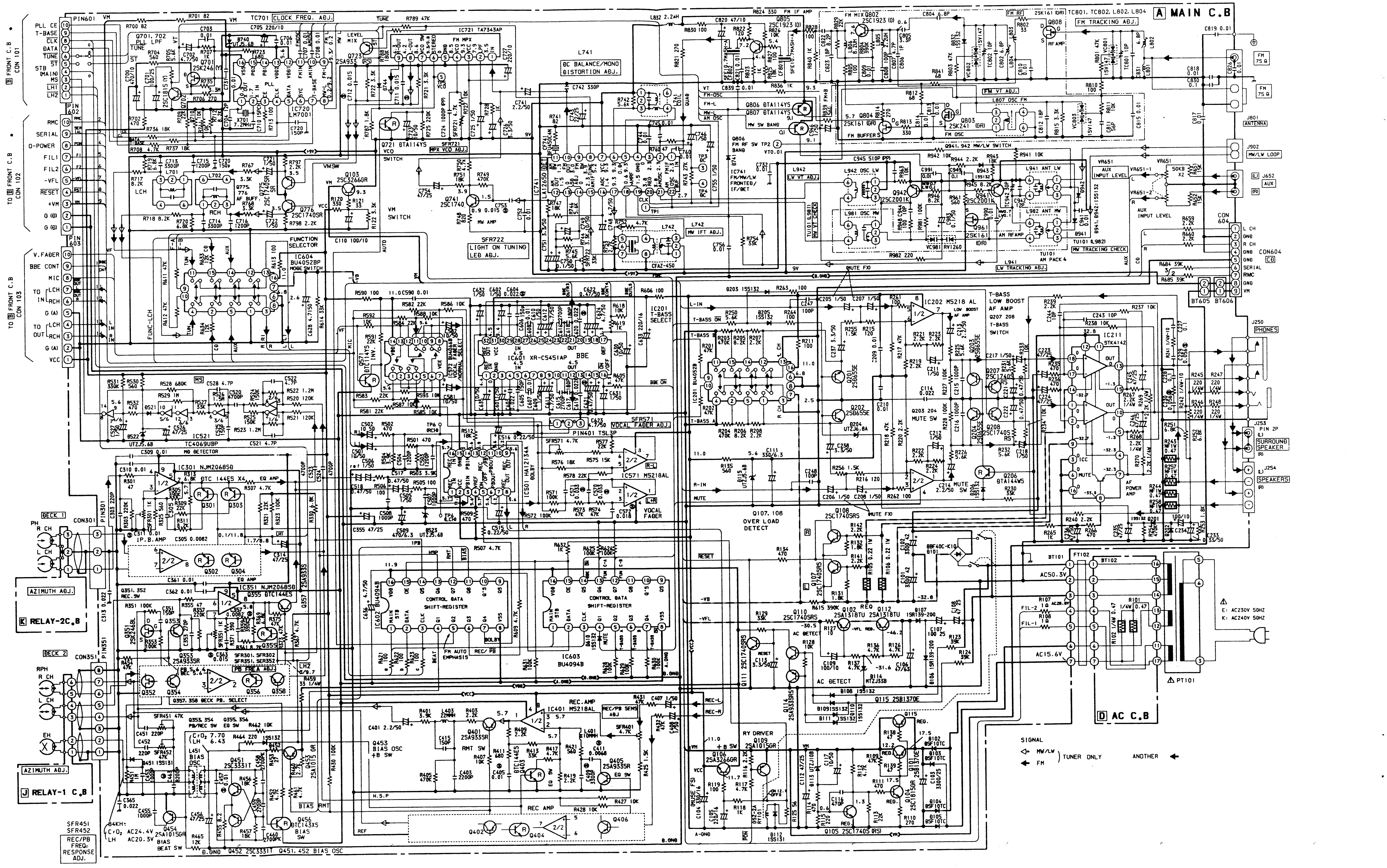
WIRING – 2 (E, K MODELS)

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.
（プリント基板内のケミコンの極性表示は⊖表示です。）



A MAIN C.B (E,K MODELS)
FROM G RELAY-1 C.B
CON301
TO PIN301
FROM H RELAY-2 C.B
CON351
TO PIN351
J801 ANTENNA
FM 75Ω
FM 75Ω
J902 MW/LW LOOP
VR651 AUX INPUT LEVEL
J652 AUX
CON604 CD
TO D AC C.B BT102
J253 SURROUND SPEAKERS SPEAKER IMP.: 16Ω + 16Ω
J254 SPEAKERS SPEAKER IMP.: 6Ω
CON101 FROM B FRONT C.B
CON102 FROM B FRONT C.B
CON103 FROM B FRONT C.B
PIN601
PIN602
PIN603
J250 PHONES
D AC C.B
PT101
E MODEL AC 230V 50HZ
K MODEL AC 240V 50HZ
FROM A MAIN C.B BT101
BLU
RED
BLK
FT102
IC201
IC211
IC301
IC351
IC401
IC501
IC521
IC571
IC572
IC601
IC602
IC603
IC604
IC720
IC721
IC741
RY101

SCHEMATIC DIAGRAM – 2 (E, K MODELS)

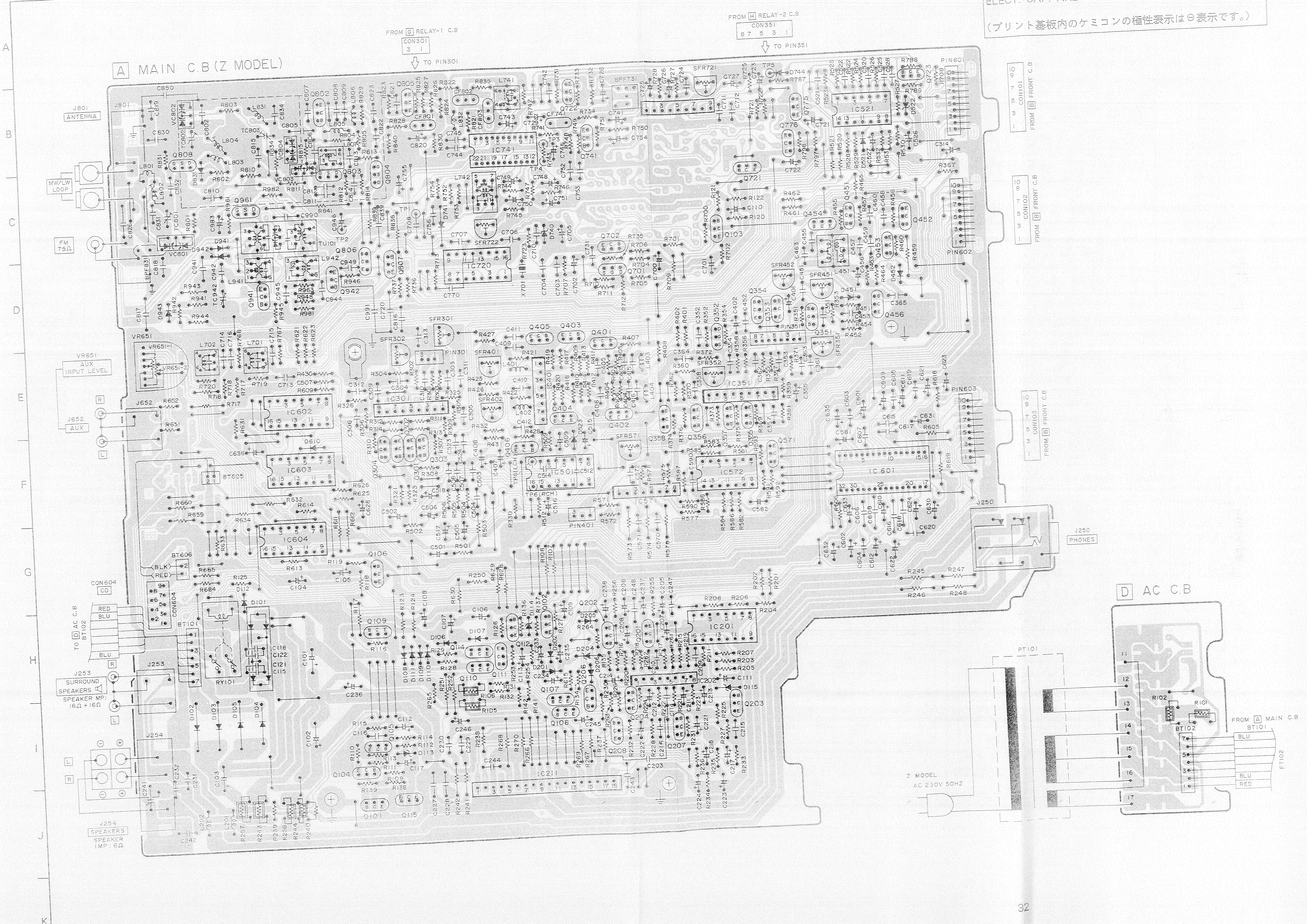


A MAIN C.B
B FRONT C.B CON 101
TO B FRONT C.B CON 102
TO B FRONT C.B CON 103
PLL CE
T-BASE
CLK
DATA
TUNE
ST
STB (MAIN)
MS
LH1
LH2
RMC
SERIAL
O-POWER
FIL1
FIL2
-VFL
RESET
+VM
G (D)
V.FADER
BBE CONT
MIC
TO IN LCH
RCH
TO OUT LCH
RCH
G (A)
VCC
PIN601
PIN602
PIN603
CLOCK FREQ. ADJ.
IC721 TA7343AP
IC720 LM7001
X701 7.2MHz
FM MPX
MPX VCO ADJ.
DC BALANCE/MONO DISTORTION ADJ.
IC741 LA1265D
LIGHT ON TUNING LED ADJ.
FM IF AMP
FM MIX Q802 2SC1923 (O)
FM TRACKING ADJ.
FM VT ADJ.
L807 OSC FM
FM BUFFERS
FM OSC
Q806 FM RF SW TP2
Q807 BTA114YS
MW SW BAND
Q941, 942 MW/LW SWITCH
L941 ANT LW
L942 OSC LW
LW VT ADJ.
MW VT CHECK
L981 OSC MW
L982 ANT MW
MW TRACKING CHECK
LW TRACKING ADJ.
TU101 AM PACK 4
AM RFAMP
AUX INPUT LEVEL
VR651
J801 ANTENNA
FM 75Ω
J902 MW/LW LOOP
J652 AUX
CON604
L CH
R CH
SERIAL
RMC
VM
BT605 BT606
IC604 BU4052BP MODE SWITCH
FUNCTION SELECTOR
FUNC-LCH
IC601 XR-C5451AP BBE
BBE ON
IC201 T-BASS SELECT
T-BASS LOW BOOST AF AMP
IC202 M5218 AL
IC211 STK4142
J250 PHONES
J253 PIN 2P SURROUND SPEAKER
J254 SPEAKERS
IC521 TC4069UBP
IC301 NJM2068SD
EQ AMP
P.B. AMP
DECK 1
DECK 2
CON301
CON351
PIN301
PIN351
AZIMUTH ADJ.
K RELAY-2C.B
J RELAY-1 C.B
IC351 NJM2068SD
PB FREQ ADJ.
IC501 HA12134A DOLBY
IC571 M5218AL VOCAL FADER
VOCAL FADER ADJ.
PIN401 TSL3P
IC602 BU4094B CONTROL DATA SHIFT-REGISTER
IC603 BU4094B CONTROL DATA SHIFT-REGISTER
FM AUTO EMPHASIS
REC/PB
IC401 M5218AL REC. AMP
REC/PB SENS ADJ.
Q453 BIAS OSC +B SW
L451 BIAS OSC
Q451 2SC3331T
Q452 2SC3331T Q451, 452 BIAS OSC
RMT SW
EQ SW
REC AMP
SFR451 SFR452 REC/PB FREQ. RESPONSE ADJ.
OVER LOAD DETECT
MUTE SW
RESET
AC DETECT
RY DRIVER
BT101
FT102
BT102
AC50.3V
AC15.6V
FIL-2
FIL-1
D AC C.B
PT101
E: AC230V 50HZ
K: AC240V 50HZ
SIGNAL
MW/LW
FM
TUNER ONLY
ANOTHER

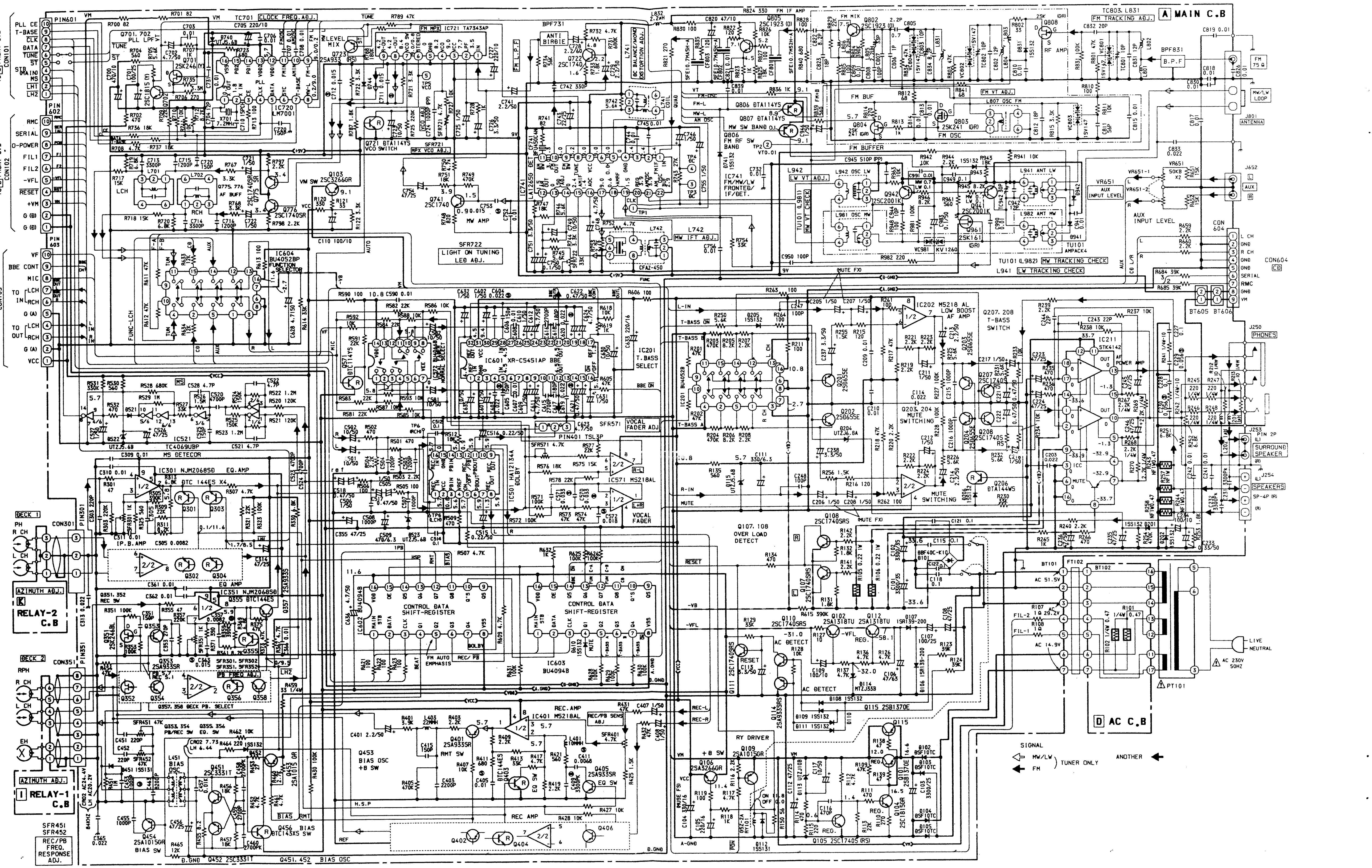
WIRING – 3 (Z MODELS)

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

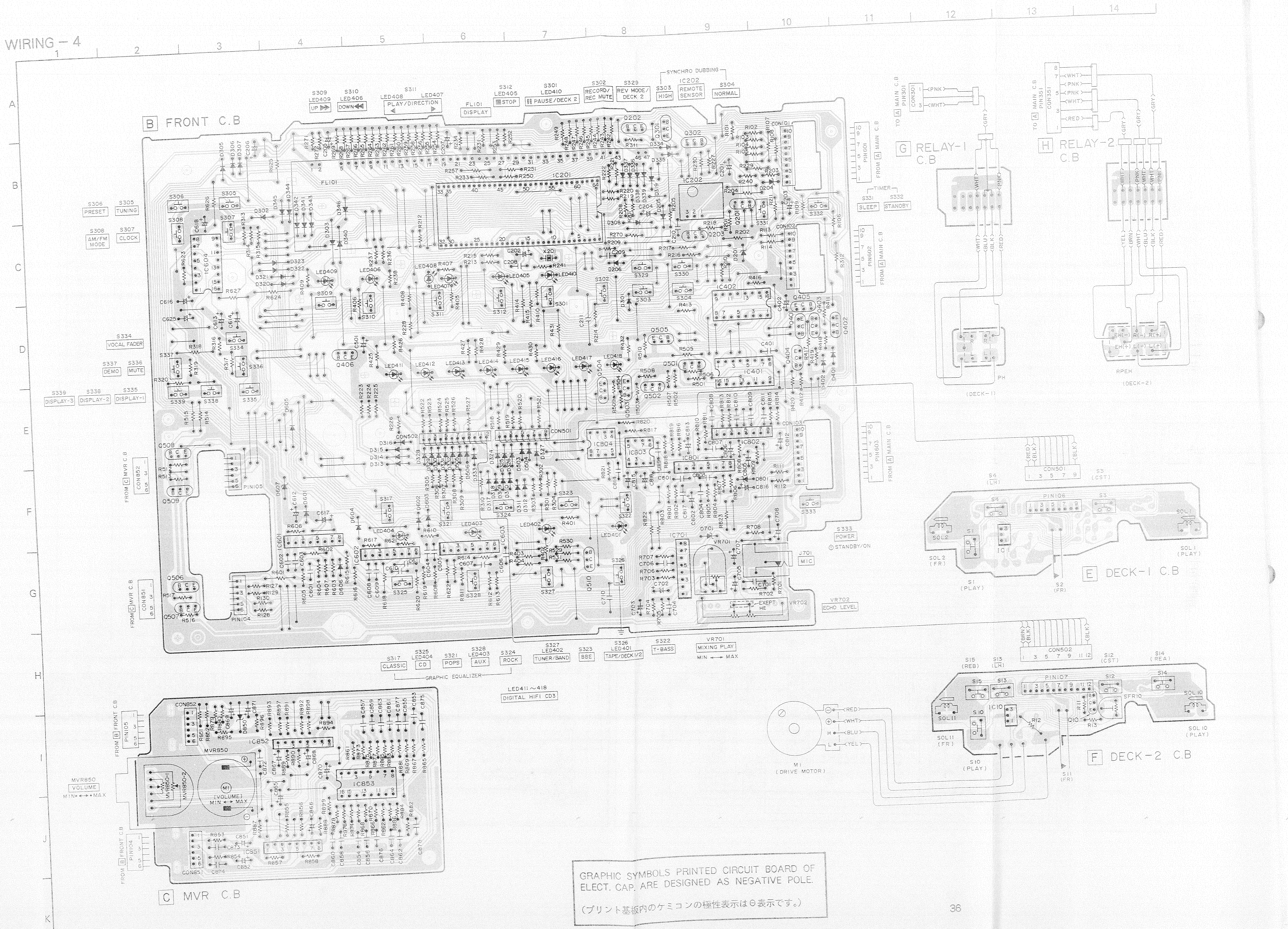
（プリント基板内のケミコンの極性表示は⊖表示です。）


1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
J
K
A MAIN C.B (Z MODEL)
FROM G RELAY-1 C.B
CON301
3 1
TO PIN301
FROM H RELAY-2 C.B
CON351
8 7 5 3 1
TO PIN351
J801 ANTENNA
MW/LW LOOP
FM 75Ω
VR651 AUX INPUT LEVEL
R
J652 AUX
L
CON604 CD
RED
BLU
BLU
TO D AC C.B BT102
J253 SURROUND SPEAKERS
SPEAKER IMP: 16Ω+16Ω
J254 SPEAKERS
SPEAKER IMP: 6Ω
FROM B FRONT C.B CON101
FROM B FRONT C.B CON102
FROM B FRONT C.B CON103
PIN601
PIN602
PIN603
J250 PHONES
IC741
IC720
IC521
IC602
IC603
IC604
IC301
IC401
IC351
IC501
IC572
IC571
IC601
IC201
IC202
IC211
D AC C.B
PT101
Z MODEL AC 230V 50HZ
FROM A MAIN C.B BT101
BT102
BLU
BLU
RED
FT102

SCHEMATIC DIAGRAM – 3 (Z MODELS)


A MAIN C.B
D AC C.B
TO B FRONT C.B CON101
TO B FRONT C.B CON102
TO B FRONT C.B CON103
PLL CE
T-BASE
CLK
DATA
TUNE
ST
STB
MAIN
MS
LH1
LH2
RMC
SERIAL
D-POWER
FIL1
FIL2
-VFL
RESET
+VM
G (D)
VF
BBE CONT
MIC
TO IN LCH
RCH
TO OUT LCH
RCH
G (A)
VCC
PIN601
PIN602
PIN603
TC701 CLOCK FREQ. ADJ.
IC721 TA7343AP
FM MPX
IC720 LM7001
Q701, 702 PLL LPF
Q721 DTA114YS VCO SWITCH
SFR721 MPX VCO ADJ.
Q723 2SA933
LEVEL MIX
Q741 2SC1740
MW AMP
SFR722 LIGHT ON TUNING LED ADJ.
BPF731 ANTI BIRDIE
FM L.P.F
DC BALANCE/MONO DISTORTION ADJ.
IC741 LA1265D DET
IC741 FM/MW/LW FRONTEND/ IF/DET.
L742 MW IFT ADJ.
CFA2-450
Q806 DTA114YS
Q807 DTA114YS MW SW BAND
Q806 FM RF SW BAND
Q805 2SC1923
Q802 2SC1923
Q808
FM MIX
RF AMP
FM BUF
FM BUFFER
FM OSC
Q803 2SK241
Q804 2SK241
L807 OSC FM
FM VT ADJ.
TC803, L831
FM TRACKING ADJ.
BPF831 B.P.F
FM 75Ω
MW/LW LOOP
J801 ANTENNA
L942 LW VT ADJ.
L942 OSC LW
L941 ANT LW
L981 OSC MW
L982 ANT MW
Q942 2SC2001K
Q941 2SC2001K
Q961 2SK161
TU101 L981 MW VT CHECK
TU101 L982 MW TRACKING CHECK
L941 LW TRACKING CHECK
TU101 AMPACK4
VR651 AUX INPUT LEVEL
AUX INPUT LEVEL
J652 AUX
CON 604
CON604 C
BT605 BT606
IC604 BU4052BP FUNCTION SELECTOR
FUNC-LCH
IC601 XR-C5451AP BBE
Q557 DTC114YS
IC521 TC4069UBP
MS DETECOR
IC301 NJM2068SD EQ.AMP
Q301 Q302 Q303 Q304
Q351, 352 REC SW
IC351 NJM2068SD
Q355 DTC144ES
EQ AMP
P.B. AMP
DECK 1
DECK 2
CON301
CON351
PIN301
PIN351
AZIMUTH ADJ.
K RELAY-2 C.B
I RELAY-1 C.B
SFR301, SFR302
SFR351, SFR352
PB FREQ ADJ.
Q357, 358 DECK PB. SELECT
SFR451
SFR452
REC/PB FREQ. RESPONSE ADJ.
L451 BIAS OSC
Q451 2SC3331T
Q452 2SC3331T
Q451, 452 BIAS OSC
Q453 BIAS OSC +B SW
Q454 2SA1015GR BIAS SW
Q456 DTC143XS BIAS SW
IC501 HA12134A DOLBY
IC571 M5218AL
SFR571 VOCAL FADER ADJ
VOCAL FADER
PIN401 TSL3P
IC602 BU4094B
IC603 BU4094B
CONTROL DATA SHIFT-REGISTER
FM AUTO EMPHASIS
IC401 M5218AL
REC AMP
Q401 2SA933SR RMT SW
Q403 DTC144ES EQ SW
Q405 2SA933SR EQ SW
Q402 Q404 Q406
IC201 BU4052B
IC201 T.BASS SELECT
Q201 2SD655E
Q202 2SD655E
Q203, 204 MUTE SWITCHING
IC202 M5218AL LOW BOOST AF AMP
Q207, 208 T-BASS SWITCH
Q206 DTA144WS
MUTE SWITCHING
IC211 STK4142
AF POWER AMP
J250 PHONES
J253 SURROUND SPEAKER
J254 SPEAKERS
SP-4P
Q107, 108 OVER LOAD DETECT
Q110 2SC1740SRS
Q102 2SA1318TU
Q112 2SA1318TU
AC DETECT
RESET
Q111 2SC1740SRS
Q114 2SA933SRS
Q115 2SB1370E
RY DRIVER
Q109 2SA1015GR
Q106 2SA3266GR
Q105 2SC1740S
Q101 2SD1370E
Q104 2SC1815GR
REG.
BT101 FT102 BT102
PT101
LIVE NEUTRAL
AC 230V 50HZ
SIGNAL
MW/LW
FM
TUNER ONLY
ANOTHER

WIRING - 4

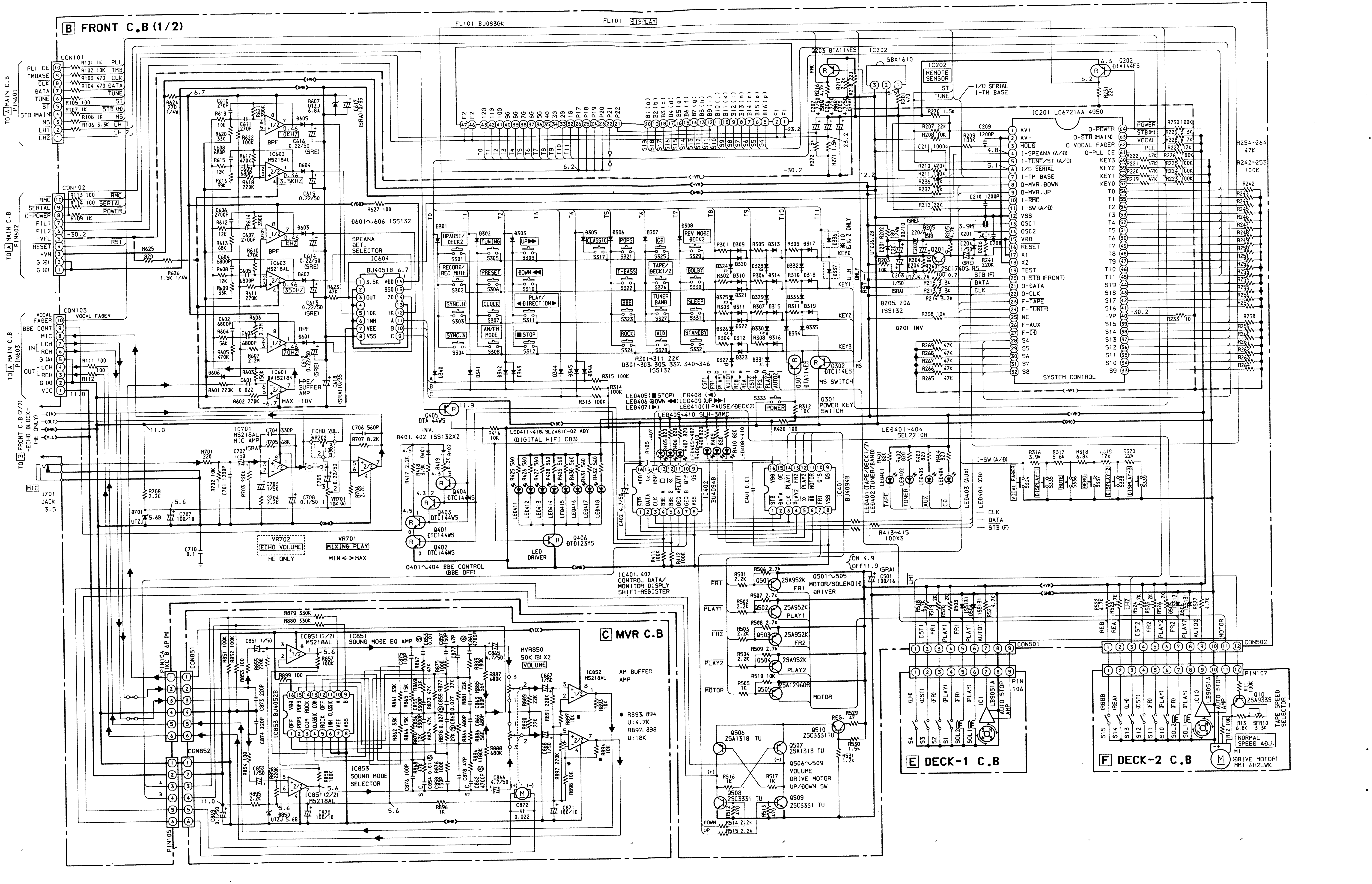


B FRONT C.B
C MVR C.B
E DECK-1 C.B
F DECK-2 C.B
G RELAY-1 C.B
H RELAY-2 C.B
S309 LED409 UP
S310 LED406 DOWN
S311 LED408 LED407 PLAY/DIRECTION
FL101 DISPLAY
S312 LED405 STOP
S301 LED410 PAUSE/DECK 2
S302 RECORD/REC MUTE
S329 REV MODE/DECK 2
SYNCHRO DUBBING
S303 HIGH
IC202 REMOTE SENSOR
S304 NORMAL
S306 PRESET
S305 TUNING
S308 AM/FM MODE
S307 CLOCK
S334 VOCAL FADER
S337 DEMO
S336 MUTE
S339 DISPLAY-3
S338 DISPLAY-2
S335 DISPLAY-1
TIMER
S331 SLEEP
S332 STANDBY
S333 POWER
STANDBY/ON
J701 MIC
VR702 ECHO LEVEL
S317 CLASSIC
S325 LED404 CD
S321 POPS
S328 LED403 AUX
S324 ROCK
GRAPHIC EQUALIZER
S327 LED402 TUNER/BAND
S323 BBE
S326 LED401 TAPE/DECK1/2
S322 T-BASS
VR701 MIXING PLAY
MIN ↔ MAX
LED411～418 DIGITAL HIFI CD3
TO A MAIN C.B CON301
TO A MAIN C.B CON351
FROM A MAIN C.B PIN601
FROM A MAIN C.B PIN602
FROM A MAIN C.B PIN603
FROM C MVR C.B CON852
FROM C MVR C.B CON851
FROM B FRONT C.B PIN105
FROM B FRONT C.B PIN104
MVR850 VOLUME MIN ↔ MAX
(VOLUME) MIN ↔ MAX
PH (DECK-1)
RPEH (DECK-2)
CON501
CON502
S4 (LH)
S3 (CST)
SOL 2 (FR)
SOL 1 (PLAY)
S1 (PLAY)
S2 (FR)
S15 (REB)
S13 (LH)
S12 (CST)
S14 (REA)
SOL 11 (FR)
SOL 10 (PLAY)
S10 (PLAY)
S11 (FR)
M1 (DRIVE MOTOR)
RED
WHT
BLU
YEL
PNK
GRY
BRN
BLK

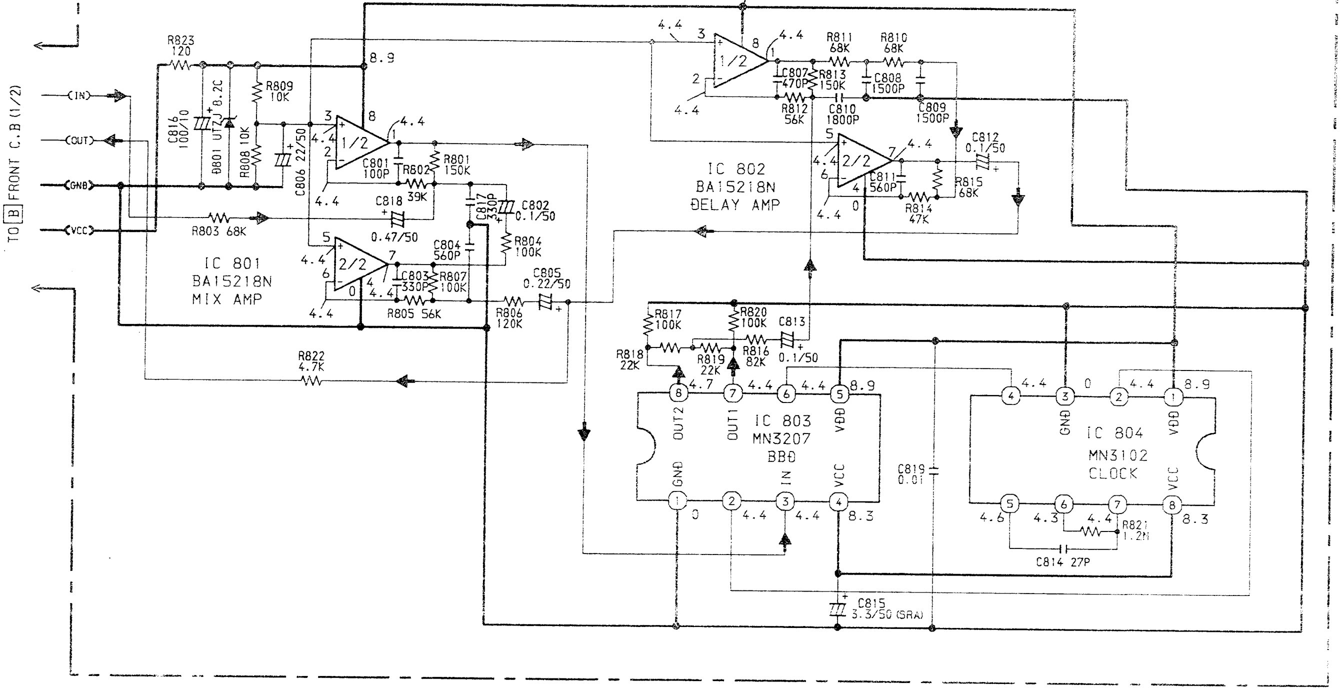
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

（プリント基板内のケミコンの極性表示は⊖表示です。）

SCHEMATIC DIAGRAM – 4

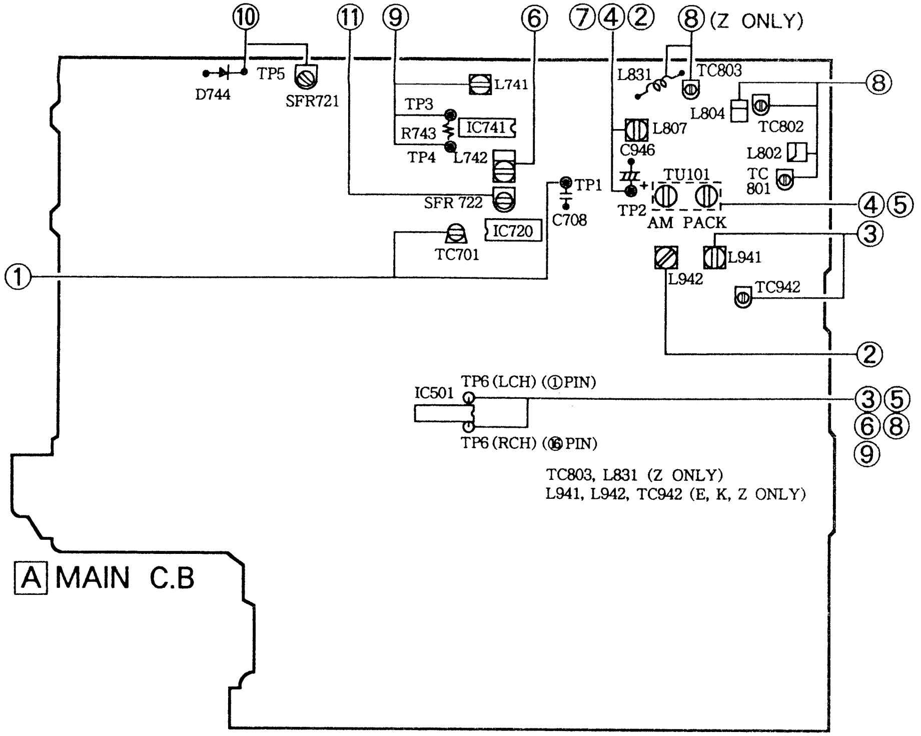

B FRONT C.B (1/2)
CON101
CON102
CON103
TO A MAIN C.B PIN601
TO A MAIN C.B PIN602
TO A MAIN C.B PIN603
TO B FRONT C.B (2/2) -ECHO BLOCK- (HE ONLY)
MIC
J701 JACK 3.5
FL101 BJ083GK
FL101 DISPLAY
IC202 SBX1610
REMOTE SENSOR
Q203 DTA114ES
Q202 DTA144ES
IC201 LC67216A-4950
SYSTEM CONTROL
IC601 BA15218N HPF BUFFER AMP
IC602 M5218AL
IC603 M5218AL
IC604 BU4051B
SPEANA DET. SELECTOR
D601~606 1SS132
10KHZ
3.5KHZ
1KHZ
350HZ
70HZ
BPF
IC701 M5218AL MIC AMP
ECHO VOL. VR702
VR702 ECHO VOLUME HE ONLY
VR701 MIXING PLAY MIN⟷MAX
Q401~404 BBE CONTROL (BBE OFF)
Q405 DTA144WS
Q406 DTO123YS LED DRIVER
LED411~418 SLZ481C-02 ABY (DIGITAL HIFI CD3)
LED405~410 SLH-38MC
LED401~404 SEL2210R
IC401, 402 CONTROL DATA/ MONITOR DISPLY SHIFT-REGISTER
IC401 BU4094B
IC402 BU4094B
Q301 POWER KEY SWITCH
Q302 DTC114ES MS SWITCH
R301~311 22K
D301~303, 305, 337, 340~346 1SS132
PAUSE/DECK2
TUNING
UP
CLASSIC
POPS
CD
REV MODE DECK2
RECORD/REC MUTE
PRESET
DOWN
T-BASS
TAPE/DECK1/2
DOLBY
SYNC.H
CLOCK
PLAY/DIRECTION
BBE
TUNER BAND
SLEEP
SYNC.N
AM/FM MODE
STOP
ROCK
AUX
STANDBY
POWER
KEY0
KEY1
KEY2
KEY3
Q501~505 MOTOR/SOLENOID DRIVER
Q506~509 VOLUME DRIVE MOTOR UP/DOWN SW
Q510 2SC3331TU
REG.
MOTOR
C MVR C.B
IC851 (1/2) M5218AL SOUND MODE EQ AMP
IC853 BU4052B SOUND MODE SELECTOR
IC852 M5218AL AM BUFFER AMP
MVR850 50K (B) X2 VOLUME
R893, 894 U:4.7K
R897, 898 U:18K
CON851
CON852
PIN104 TO B 6P (M)
PIN105
CON501
CON502
PIN106
PIN107
E DECK-1 C.B
F DECK-2 C.B
LB9051A AUTO STOP AMP
Q10 2SA933S
NORMAL SPEED ADJ.
TAPE SPEED SELECTOR
M1 (DRIVE MOTOR) MM1-6H2LWK

B FRONT C.B (2/2) —ECHO BLOCK— (HE ONLY)


TO B FRONT C.B (1/2)
(IN)
(OUT)
(GNB)
(VCC)
R823 120
C816 100/10
D801 UTZJ 8.2C
R809 10K
R808 10K
C806 22/50
R803 68K
IC 801
BA15218N
MIX AMP
1/2
2/2
C801 100P
R802 39K
R801 150K
C818 0.47/50
C817 330P
C802 0.1/50
C804 560P
R804 100K
C803 330P
R807 100K
R805 56K
R806 120K
C805 0.22/50
R822 4.7K
IC 802
BA15218N
DELAY AMP
R811 68K
R810 68K
C807 470P
R813 150K
C808 1500P
R812 56K
C810 1800P
C809 1500P
C812 0.1/50
C811 560P
R815 68K
R814 47K
R817 100K
R820 100K
C813 0.1/50
R818 22K
R819 22K
R816 82K
IC 803
MN3207
BBD
OUT2
OUT1
VDD
GND
IN
VCC
C819 0.01
IC 804
MN3102
CLOCK
GND
VDD
VCC
R821 1.2M
C814 27P
C815 3.3/50 (SRA)
8.9
4.4
4.7
8.3
4.6
4.3
0

ADJUSTMENT

TUNER



Initialized Condition
GEQ VR : Center
BBE SW : OFF
MIC VR : Minimum
BALANCE VR : Center
VR : Minimum
DOLBY NR SW : OFF
T-BASS : OFF
Standard Input Level : 1V, 0dB (AMP)
-14.3dB, 0VU (AUX IN, DECK)

(TUNER SECTION)

1. Clock Frequency Adjustment
   Settings : • Test point : TP1 (CLK)
   • Adjustment location : TC701
   Method : Set to AM 1602kHz (HE, E, K, Z), 1710kHz (LH, U) and adjust so that the test point becomes 2052kHz ± 0.01kHz (HE, E, K, Z), 2160kHz ± 0.01kHz (LH, U).

2. LW VT Adjustment (E, K, Z)
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L942
   Method : Set to LW 144kHz and adjust so that the test point becomes 1.5V ± 0.05V.

3. LW Tracking Adjustment (E, K, Z)
   Settings : • Test point : TP6 (IC501, PIN①/PIN⑯)
   L941 ·· 144kHz
   TC942 ·· 290kHz

4. MW VT Check
   Settings : • Test point : TP2 (VT)
   • Adjustment location : TU101
   Method : Set to AM 1602kHz (HE, E, K, Z), 1710kHz (LH, U) and adjust so that the test point becomes 6.0V ± 1.0V (HE, E, K, Z), 7.0 ± 1.0V (LH, U).

5. MW Tracking Check
   Settings : • Test point : TP6 (IC501, PIN①/PIN⑯)
   Adjustment location : TU101
   Method : Set to AM 999kHz (HE, E, K, Z), 1000kHz (LH, U) and adjust to so that point become 53 ± 6dB (HE, E, K, Z), S/N 20dB (LH, U).

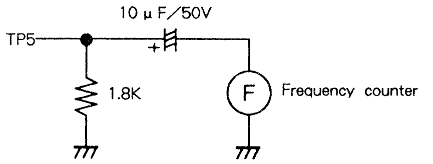
6. AM IF Adjustment
   Settings : • Test point : TP6 (IC501, PIN①/PIN⑯)
   L742 ··· 450kHz

7. FM VT Adjustment
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L807
   Method : Set to FM 87.5MHz and adjust L807 so that the test point becomes 2.9V ± 0.05V.

8. FM Tracking Adjustment
   Settings : • Test point : TP6 ((IC501, PIN①/PIN⑯)
   TC801, TC802 ····················· 108MHz (Except Z)
   TC801, TC802, TC803 ···················· 108MHz (Z)
   L802, L804 ······················· 87.5MHz (Except Z)
   L802, L804, L831 ························ 87.5MHz (Z)

9. DC Balance/MONO Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC balance)
   TP6 ((IC501, PIN①/PIN⑯)
   (Distortion)
   • Adjustment location : L741
   • Input level : 54dB
   Method : Set to FM 98.0MHz and adjust L741 so that TP3 and TP4 output becomes 0V ± 0.02V. Next, adjust L741 so that the distortion becomes minimum (less than 0.9%).

10. MPX VCO Adjustment
    Settings : • Test point : TP5
    • MODE SW : STEREO
    • Adjustment location : SFR721
    • Input level : 54dB
    Method : Connect a capacitor and a resistor as below. Set to FM 98.0MHz and adjust so that the frequency at test point becomes 38kHz ± 0.05kHz.



11. Light on tuning LED Adjustment
    Settings : • Adjustment location : SFR722
    • Input level : 16dB
    Method : Set to FM 98.0MHz and adjust TUNING LED to light on by SFR722. After that, LED goes out by 16 ± 2dB down.

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

< FM SECTION >

IHF Sensitivity :	2 ± 6dB (Except Z)
(THD 3%)	(at 87.5, 98.0, 108.0MHz)
	7 ± 6dB (Z)
	(at 87.5, 98.0, 108.0MHz)
S/N 50dB Quieting Sensitivity :	
(Except Z)	32 ± 5dB
	(at 87.5, 98.0, 108.0MHz)
S/N 46dB Quieting Sensitivity :	
(Z)	37 ± 6dB
	(at 87.5, 98.0, 108.0MHz)
Signal to Noise Ratio :	More than 64dB (Except Z)
	(at 98.0MHz)
	More than 60dB(Z)
	(at 98.0MHz)
Distortion :	Less than 1.2%
	(at 98.0MHz)
Stereo Separation :	More than 25dB (at 98.0MHz)
Intermediate Frequency :	10.7MHz

< AM (MW) SECTION >

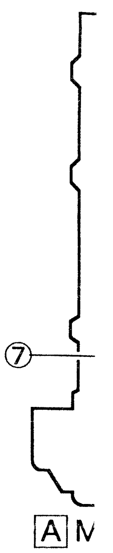
Sensitivity : S/N (20dB)	$54 \pm^{8}_{6}$ dB
	[at 603kHz (HE, E, K, Z)]
	[at 600kHz (LH, U)]
	53 ± 6dB
	[at 999/1404kHz (HE, E, K, Z)]
	[at 1000/1400kHz (LH, U)]
Distortion :	Less than 1.5%
	[at 999kHz (HE, E, K, Z)]
	[at 1000kHz (LH, U)]
Intermediate Frequency :	450kHz

< LW SECTION > (E, K, Z)

Sensitivity :	66 ± 5dB (at 144kHz)
(S/N 20dB)	63 ± 5dB (at 198Hz)
	62 ± 5dB (at 290kHz)
Signal to Noise Ratio :	More than 32dB (at 198kHz)
Distortion :	Less than 1.5% (at 198kHz)
Intermediate Frequency :	450kHz

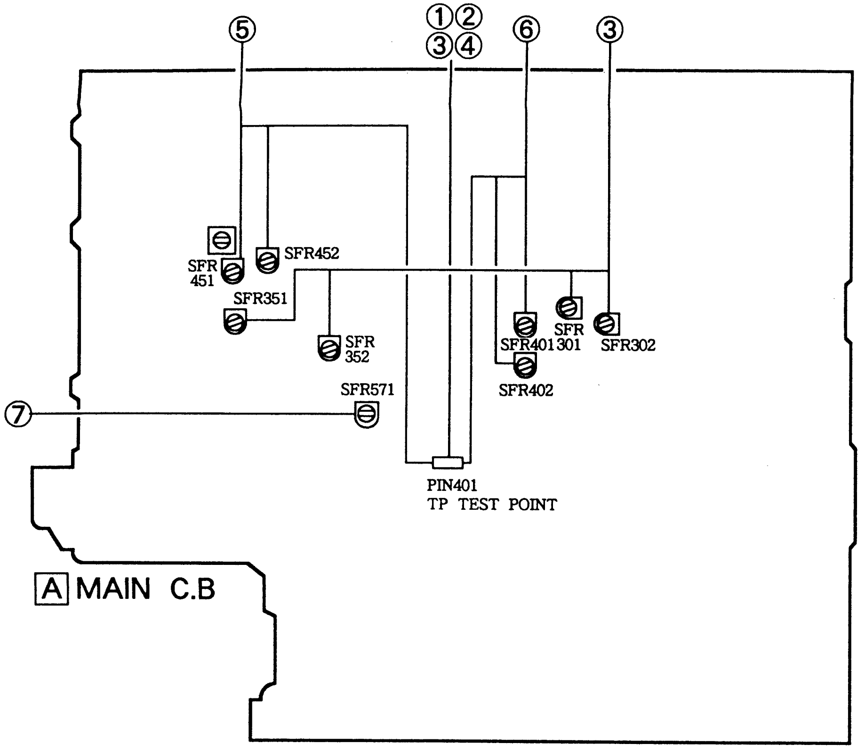
ADJUSTME

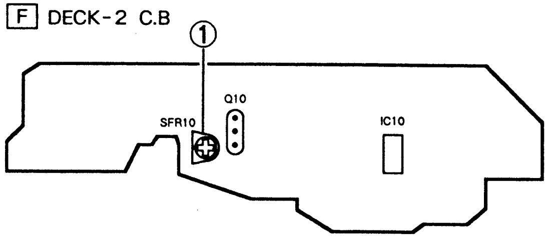
DECK

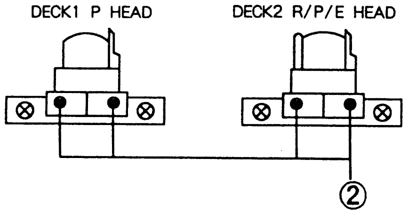


ADJUSTMENT – 2

DECK







(DECK SECTION)

1. Normal Speed Adjustment (DECK-2)

Settings : • Test tape : TTA-100 (TTA-111S)
• Test point : TP-OUT (PIN401)
• Adjustment location : SFR10 (DECK-2)

Method : Play back the test tape, on FWD PLAY SFR10 (DECK-2) adjust for 2990Hz ± 5Hz.

2. Head Azimuth Adjustment (DECK-1, DECK-2)

Settings : •Test tape : TTA-310 (TTA-317E, SCC-1429)
• Test point : TP-OUT (PIN401)
• Adjustment location : Head azimuth adjustment screw

Method : Play back the 10kHz signal of the test tape and adjust so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

3. PB Sensitivity Adjustment (DECK-1, DECK-2)

Settings : • Test tape : TTA-200 (TCC-130, TTA-161)
• Test point : TP-OUT (PIN401)
• Adjustment location :
SFR301 (DECK-1, Lch)
SFR302 (DECK-1, Rch)
SFR351 (DECK-2, Lch)
SFR352 (DECK-2, Rch)

Method : Play back the test tape and adjust so that the output becomes 300mV.

4. PB Frequency Response Check (DECK-1, DECK-2)

Settings : •Test tape : TTA-310 (TTA-317E, SCC-1429)
• Test point : TP-OUT (PIN401)

Method : Play back the 315Hz and 10kHz signals of the test tape and check the output of the 10kHz signal is 0dB ± 2dB with respect to that of the 315Hz signal.

5. REC/PB Frequency Response Adjustment (DECK-2)

Settings : • Test tape : TTA-601
• Test point : TP-OUT (PIN401)
• Input signal : 1kHz/10kHz (VCR/AUX IN)
• Adjustment location : SFR451 (Lch)
SFR452 (Rch)

Method : Apply a 1kHz signal and adjust attenuator so that the level at the TP-OUT is 210mV. Record and play back the 1kHz and 10kHz signals and adjust so that the output level of 10kHz signal is 0dB ± 0.5dB for 1kHz signal.

6. REC/PB Sensitivity Adjustment (DECK-2)

Settings : • Test tape : TTA-601
• Test point : TP-OUT (PIN401)
• Input signal : 1kHz (VCR/AUX IN)
• Adjustment location : SFR401 (Lch)
SFR402 (Rch)

Method : Apply a 1kHz signal and adjust attenuator so that the level at the TP-OUT is 21mV. Record and play back the 1kHz signal and 10kHz signals and adjust so that the output level is 21mV ± 0.5dB.

7. Vocal Fader Adjustment

Settings : • Test point : SP OUT
: SFR571
• Adjustment location : SFR571

Method : Add a 2kHz, – 16.5dB signal from AUX. Adjust SFR571 so that the voltage at test point becomes minimum.

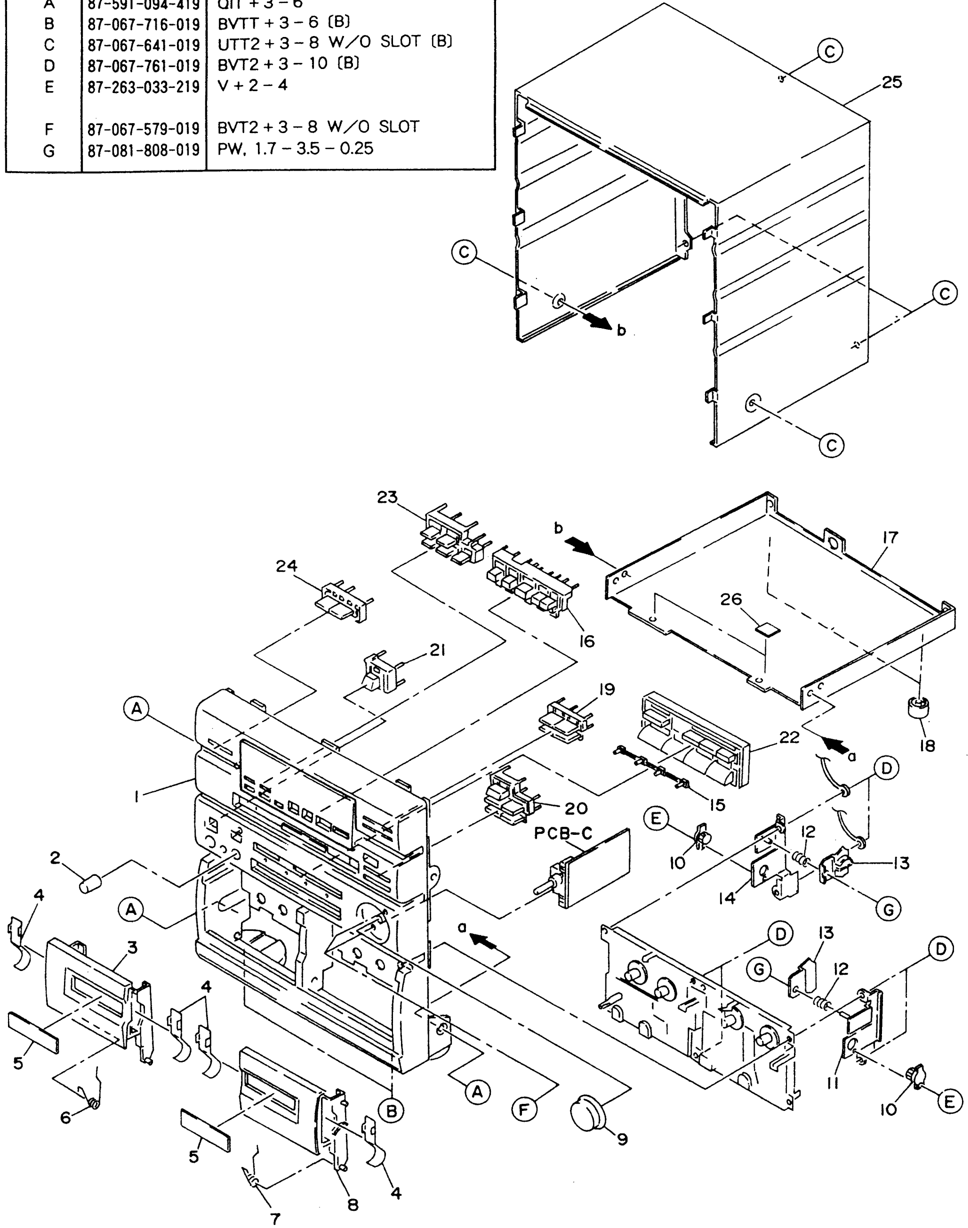
PRACTICAL SERVICE FIGURE

< DECK SECTION >

PB Output Level :	2.9V ± 1.5dB (SP OUT) TTA-200 (TTA-161, TCC-130)
REC/PB Output Level :	2.0V ± 2dB (SP OUT) TTA-601.
Distortion (REC/PB) :	Less than 2.0% (NORM, CrO_2)
Noise (PB) :	Less than 130mV/200mV (DOLBY NR ON/OFF NORM, VR MAX.) Less than 100mV/150mV (DOLBY NR ON/OFF CrO_2, VR MAX.)
Erasing Ratio :	More than 60dB (TTA-601) (at 125Hz)
Channel Separation :	More than 50dB
Recording Bias Frequency :	85kHz
Wow & Flutter :	Less than 0.25% (DECK-1/2) TTA-100 (TTA-111S)
Tape Speed :	3kHz ± 1.5%
Take-up Torque :	NORM : 25~60g-cm (DECK-1/2)
F.F & REW Torque :	70~150g-cm (DECK-1/2)
Back Tension :	2~6g-cm (DECK-1/2)
Test Tape :	NORMAL : TTA-601 CrO_2 : TTA-610 (TTA-119H) METAL : TTA-630

EXPLODED VIEW – 1

REF. NO.	PART NO.	DESCRIPTION
A	87-591-094-419	QIT + 3 – 6
B	87-067-716-019	BVTT + 3 – 6 (B)
C	87-067-641-019	UTT2 + 3 – 8 W/O SLOT (B)
D	87-067-761-019	BVT2 + 3 – 10 (B)
E	87-263-033-219	V + 2 – 4
F	87-067-579-019	BVT2 + 3 – 8 W/O SLOT
G	87-081-808-019	PW, 1.7 – 3.5 – 0.25

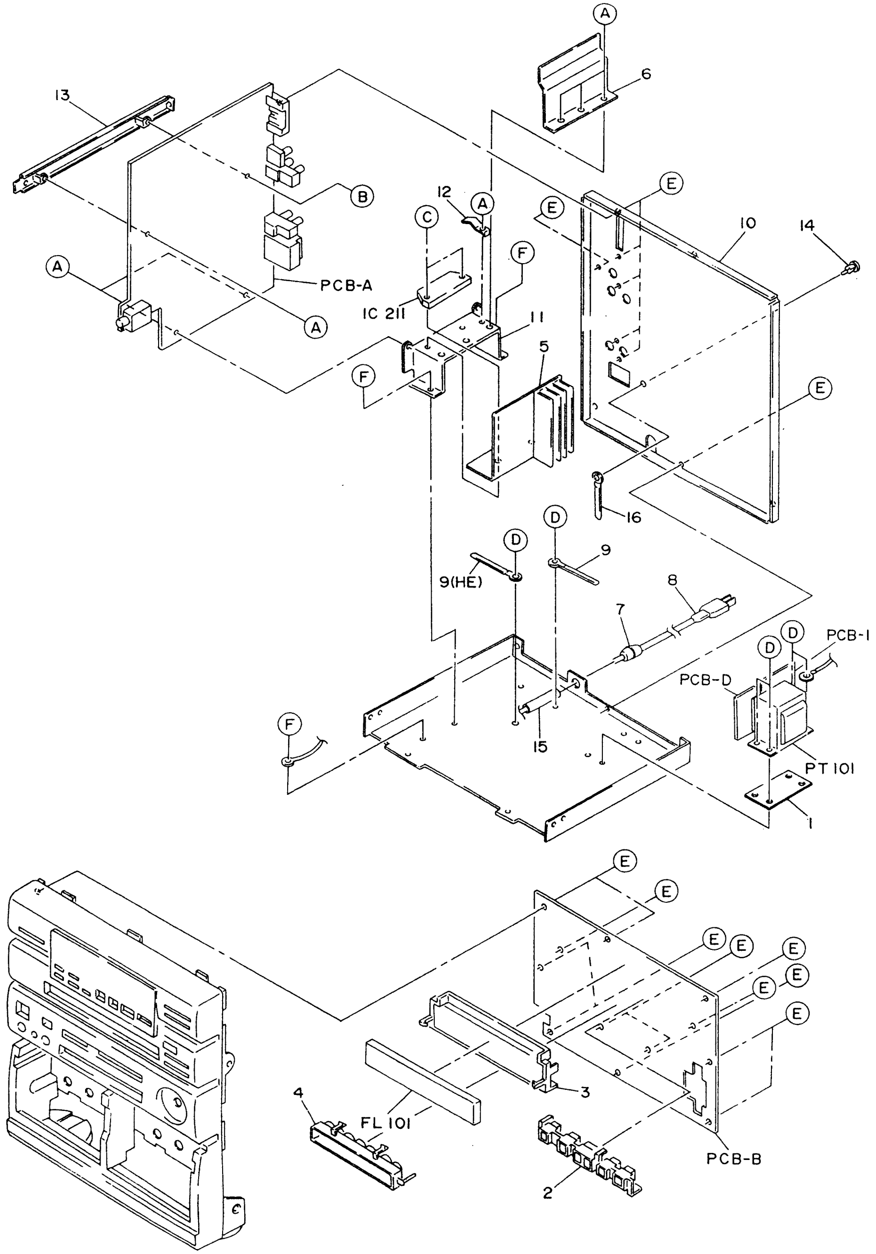


MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1-1	★09-047-712-010	FRONT CABINET ASSY [B] (HE)	※	1
	1-1	★09-047-713-010	FRONT CABINET ASSY [B] (LH)	※	1
	1-1	★09-047-714-010	FRONT CABINET ASSY [B] (U)	※	1
	1-1	★09-047-715-010	FRONT CABINET ASSY [B] (E, K, Z)	※	1
	1-1	★09-047-725-010	FRONT CABINET ASSY [N]	※	1
	1-1	★09-047-724-010	FRONT CABINET ASSY [W]	※	1
	1-2	★81-MX4-019-019	KNOB, MIC [B]		1
	1-2	★81-MX4-071-019	KNOB, MIC [N]		1
	1-2	★81-MX4-124-019	KNOB, MIC [W]		1
	1-3	★81-MX4-047-019	BOX, CASSETTE 1 [B]		1
	1-3	★81-MX4-090-019	BOX, CASSETTE 1 [N]		1
	1-3	★81-MX4-113-019	BOX, CASSETTE 1 [W]		2
	1-4	★81-MX4-223-019	P – SPRING, CASSETTE		4
	1-5	★81-MX4-014-019	WINDOW, BOX 1		2
	1-6	★81-MX4-213-019	T – SPRING, EJECT 1		1
	1-7	★81-MX4-214-019	T – SPRING, EJECT 2		1
	1-8	★81-MX4-048-019	BOX, CASSETTE 2 [B]		1
	1-8	★81-MX4-091-019	BOX, CASSETTE 2 [N]		1
	1-8	★81-MX4-114-019	BOX, CASSETTE 2 [W]		1
	1-9	★81-MX4-030-019	VOLUME KNOB ASSY [B]		1
	1-9	★81-MX4-093-019	VOLUME KNOB ASSY [N]		1
	1-9	★81-MX4-121-019	VOLUME KNOB ASSY [W]		1
	1-10	★87-063-151-010	DAMPER, OIL 37		2
	1-11	★80-MV3-204-019	LOCK HOLDER ASSY 2		1
	1-12	★80-MV3-218-019	C – SPRING, LOCK		2
	1-13	★80-CD3-233-010	PLATE, LOCK		2
	1-14	★80-MV3-201-019	LOCK HOLDER ASSY 1		1
	1-15	★81-MX4-020-019	INDICATION, FUNCTION		1
	1-16	★81-MX4-010-010	KEY, PLAY		1
	1-17	---	CHASSIS, MAIN		1
	1-18	★87-085-221-010	FOOT		2
	1-19	★81-MX4-005-019	KEY, TUNER [B]		1
	1-19	★81-MX4-061-019	KEY, TUNER [N]		1
	1-19	★81-MX4-115-019	KEY, TUNER [W]		1
	1-20	★81-MX4-006-019	KEY, CD [B]		1
	1-20	★81-MX4-062-019	KEY, CD [N]		1
	1-20	★81-MX4-116-019	KEY, CD [W]		1
	1-21	★81-MX4-007-019	KEY, POWER [B]		1
	1-21	★81-MX4-063-019	KEY, POWER [N]		1
	1-21	★81-MX4-117-019	KEY, POWER [W]		1
	1-22	★81-MX4-051-019	KEY, FUNCTION [B]		1
	1-22	★81-MX4-092-019	KEY, FUNCTION [N]		1
	1-22	★81-MX4-118-019	KEY, FUNCTION [W]		1
	1-23	★81-MX4-011-019	KEY, DUBBING		1
	1-24	★81-MX4-009-019	KEY, SLEEP [B]		1
	1-24	★81-MX4-065-019	KEY, SLEEP [N]		1
	1-24	★81-MX4-119-019	KEY, SLEEP [W]		1
	1-25	★82-NK4-025-019	CABINET, STEEL [B]	※	1
	1-25	★82-NK4-034-019	CABINET, STEEL [N]	※	1
	1-25	★82-NK4-031-019	CABINET, STEEL [W]	※	1
	1-26	★81-MX4-220-019	SHEET, 27.5 – 20 – 0.1		2

EXPLODED VIEW – 2

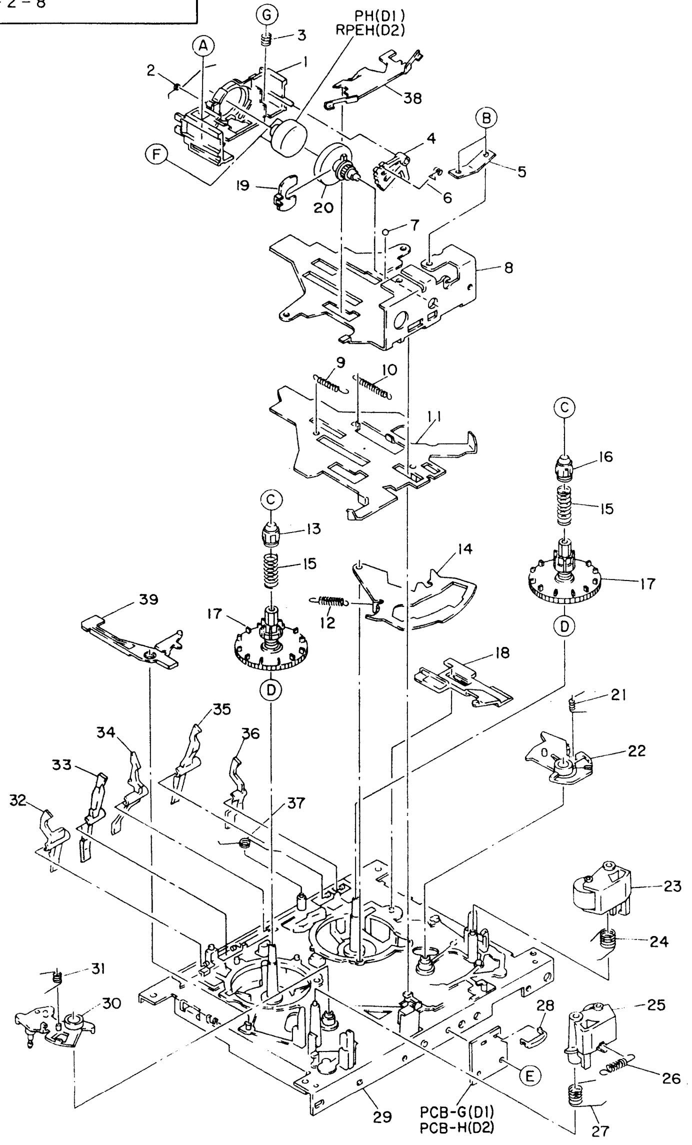
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
A	87-067-579-019	BVT2 + 3 – 8 W/O SLOT	C	87-067-581-019	BVT2 + 3 – 15 W/O SLOT	E	87-067-761-019	BVT2 + 3 – 10 [B]
B	87-067-633-019	BVT2 + 3 – 8 W CONVEX	D	87-067-585-019	BVTT + 4 – 6	F	87-067-584-019	BVT2 + 3 – 6 W/O SLOT



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	2-1	★81-MX4-657-018	HOLDER, CD 1 [B] (E, K, Z)		1
	2-2	★81-MX4-210-019	GUIDE, PLAY		1
	2-3	★81-DS2-204-019	GUIDE, FL		1
	2-4	★82-NK4-201-019	GUIDE, LED	※	1
	2-5	---	HEAT SINK ASSY [B] (K)		1
	2-6	---	HEAT SINK SUB [B, N, W] (U, E, Z)		1
	2-7	★87-085-185-010	BUSHING, AC CORD [B] (HE, E, K, Z)		1
	2-7	★87-085-184-010	BUSHING, AC CORD [B] (LH)		1
	2-7	★87-085-189-010	BUSHING, AC CORD [B, N, W] (U)		1
	2-8	★82-187-797-019	CORD, AC [B] (HE)		1
	2-8	★87-034-749-019	CORD, AC [B] (LH)		1
	2-8	★87-034-584-019	CORD, AC [B, N, W] (U)		1
	2-8	★87-050-016-018	CORD, AC [B] (E, Z)		1
	2-8	★87-034-592-018	CORD, AC [B] (K)		1
	2-9	---	BINDER, WIRE		2 [B] (HE) 1 [B, N, W] (LH, U, E, K, Z)
	2-10	★82-NK4-026-019	PANEL, REAR [B] (HE)	※	1
	2-10	★82-NK4-010-019	PANEL, REAR [B] (HEJ)	※	1
	2-10	★82-NK4-011-019	PANEL, REAR [B] (LH)	※	1
	2-10	★82-NK4-012-019	PANEL, REAR [B] (U)	※	1
	2-10	★82-NK4-013-019	PANEL, REAR [B] (E)	※	1
	2-10	★82-NK4-014-019	PANEL, REAR [B] (K)	※	1
	2-10	★82-NK4-015-019	PANEL, REAR [B] (Z)	※	1
	2-10	★82-NK4-035-019	PANEL, REAR [N]	※	1
	2-10	★82-NK4-029-019	PANEL, REAR [W]	※	1
	2-11	---	HEAT SINK		1
	2-12	---	HOLDER, IC		1
	2-13	---	HOLDER, P. C. B		1
	2-14	★87-084-077-019	RIVET, NYLON DIA 3.5 – 4..5 [B] (E, K, Z)		1
	2-15	---	TUBE, UL [B] (LH)		1
	2-16	---	BINDER, WIRE [B] (E, K, Z)		1

DED VIEW – 3

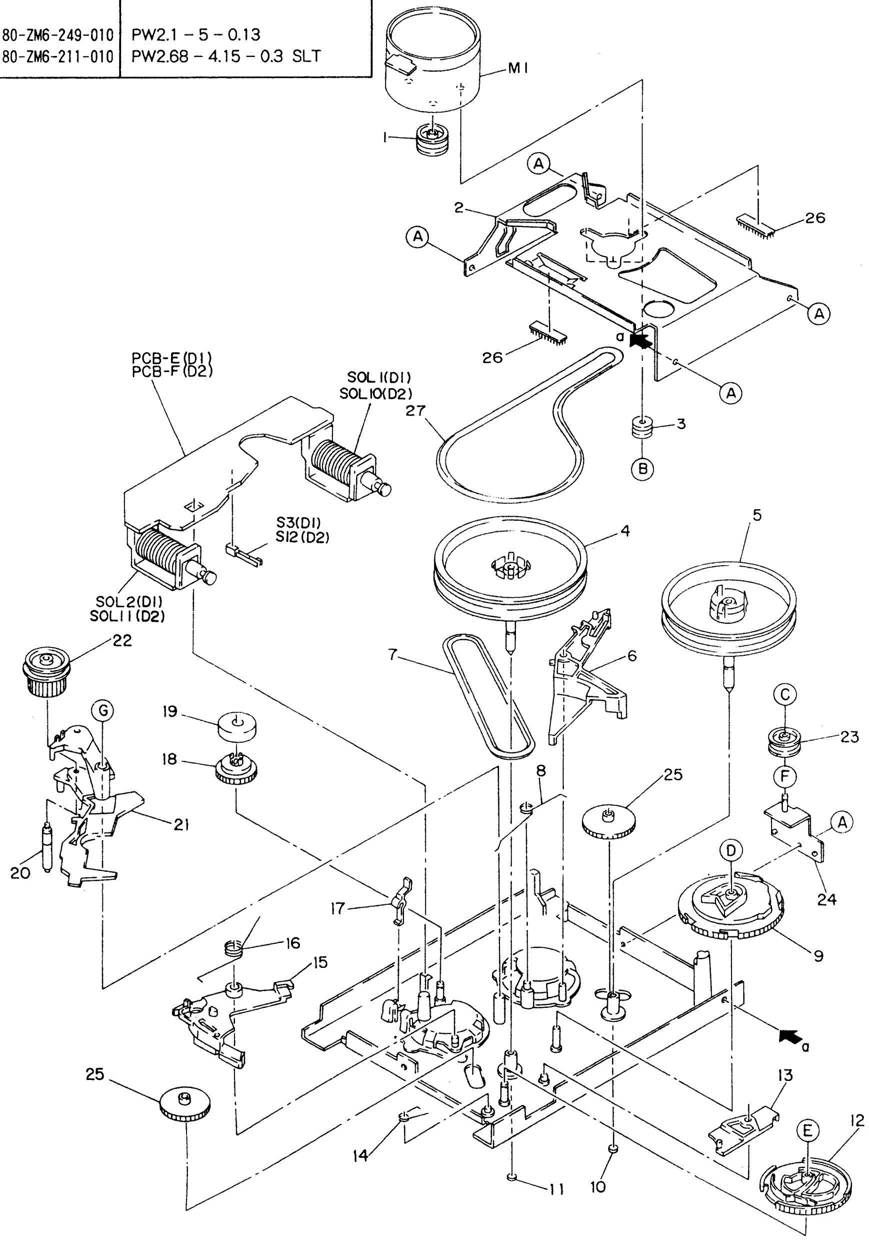
PART NO.	DESCRIPTION
87-263-033-110	V + 2 – 4
80-ZM6-251-010	SCREW S AZIMUTH 2
86-524-418-010	VFT2 + 1.4 – 5
87-067-825-010	PW4.1 – 6.9 – 0.25
87-067-174-010	VTT + 2 – 4
80-ZM6-207-010	V + 1.6 – 7
87-251-036-210	U + 2 – 8



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	3-1	★86-575-288-510	GUIDE, TAPE		1
	3-2	★86-575-310-210	T – SPRING, HEAD		1
	3-3	★86-541-318-119	C – SPRING, AZIMUTH		1
	3-4	★86-575-290-310	GEAR, SEGMENT		1
	3-5	★86-575-343-110	P – SPRING, AZIMUTH 2		1
	3-6	★80-ZM6-229-110	T – SPRING, GEAR SEG 2		1
	3-7	★87-073-018-019	BALL, STEEL 1.588		1
	3-8	★86-575-311-410	CHASSIS, HEAD		1
	3-9	★80-ZM6-268-019	E – SPRING, SLIDE 3		1
	3-10	★86-575-226-019	E – SPRING, CHASSIS HEAD		1
	3-11	★86-535-215-310	SLIDE PLATE ASSY		1
	3-12	★86-535-284-110	E – SPRING, DIRECTION LEVER		1
	3-13	★86-524-218-219	STOPPER, REEL TABLE S		1
	3-14	★86-535-218-310	LEVER, DIRECTION ASSY		1
	3-15	★86-535-293-019	C – SPRING, REEL TABLE		2
	3-16	★86-524-233-219	STOPPER, REEL TABLE T		1
	3-17	★80-ZM6-254-110	REEL GEAR ASSY L		2
	3-18	★86-575-345-210	LEVER, SWITCH 2		1
	3-19	★86-575-305-010	PLATE, HOUSING		1
	3-20	★86-575-306-910	HOLDER, HOUSING		1
	3-21	★86-535-282-019	T – SPRING, PLAY GEAR F		1
	3-22	★86-535-238-310	LEVER, PLAY F		1
	3-23	86-535-226-310	PINCH LEVER ASSY F		1
	3-24	★86-575-222-110	T – SPRING, PINCH F		1
	3-25	86-535-228-410	PINCH LEVER ASSY R		1
	3-26	★86-575-339-019	E – SPRING, PINCH 22		1
	3-27	★86-575-341-110	T – SPRING, PINCH L		1
	3-28	---	HOLDER, WIRE 2		1
	3-29	★80-ZM6-201-810	MECHANISM CHASSIS ASSY		1
	3-30	★86-535-239-110	LEVER, PLAY R		1
	3-31	★86-535-283-019	T – SPRING, PLAY GEAR R		1
	3-32	★86-575-322-110	LEVER, REC A (D2)		1
	3-33	★86-575-325-210	LEVER, METAL (D2)		1
	3-34	★86-575-324-310	LEVER, CASSETTE		1
	3-35	★86-575-327-210	LEVER, CROM		1
	3-36	★86-575-323-010	LEVER, REC B (D2)		1
	3-37	★80-ZM6-206-019	T – SPRING, CASSETTE		1
	3-38	★86-575-347-110	P – SPRING, HEAD 2		1
	3-39	★86-535-242-210	LEVER, EJECT SAFETY		1

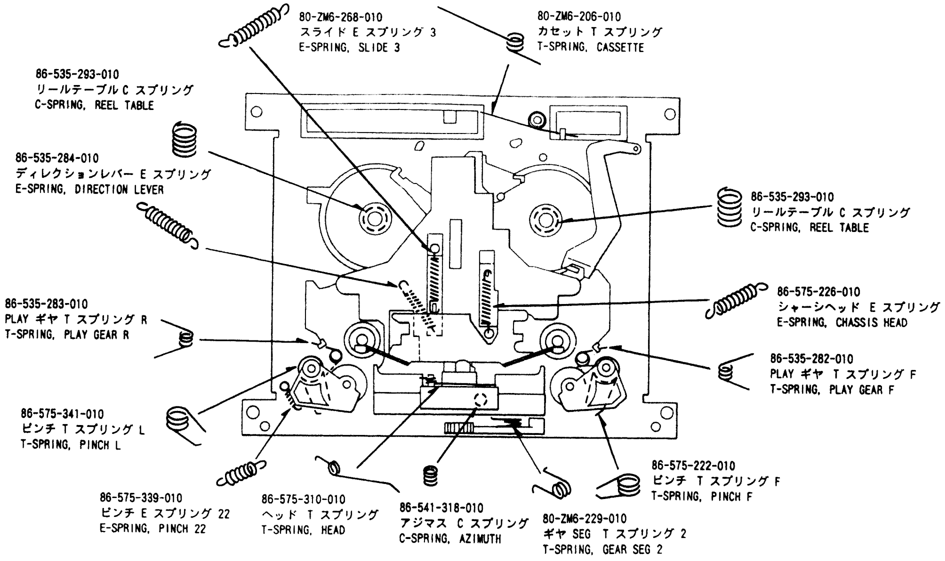
EXPLODED VIEW – 4

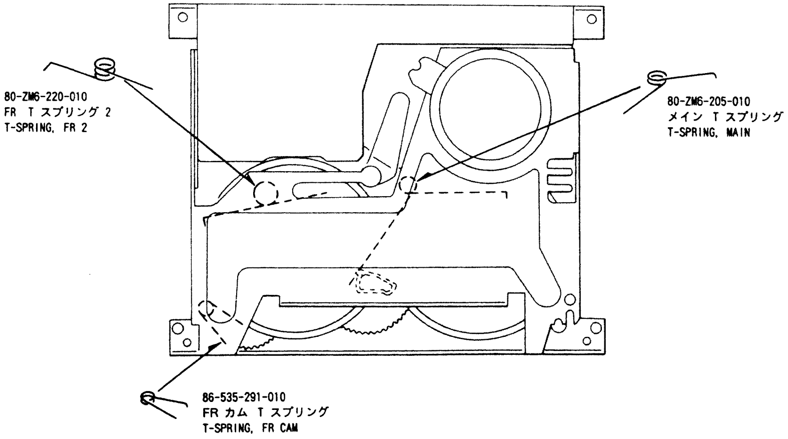
REF. NO.	PART NO.	DESCRIPTION
A	87-067-178-010	VTT + 2.6 – 3
B	86-524-457-010	U + 2.6 – 5.5
C	80-ZM6-216-010	PW1.57 – 4 – 0.25 SLT
D	87-081-489-010	PW1.7 – 3.5 – 0.25 SLT
E	87-067-380-010	PW1.7 – 7 – 0.5
F	80-ZM6-249-010	PW2.1 – 5 – 0.13
G	80-ZM6-211-010	PW2.68 – 4.15 – 0.3 SLT



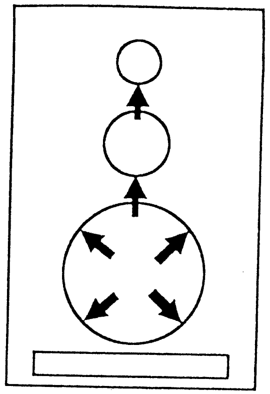
PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	4-1	★80-ZM6-228-510	PULLEY, MOTOR 2		1
	4-2	★81-ZM7-201-110	HOLDER, MOTOR 3	※	1
	4-3	★86-513-441-210	COLLAR, MOTOR		2
	4-4	★80-ZM6-203-210	FLYWHEEL ASSY R1 (D1)		1
	4-4	★80-ZM6-262-010	FLYWHEEL ASSY R2 (D2)		1
	4-5	★80-ZM6-208-310	FLYWHEEL ASSY L1 (D2)		1
	4-5	★80-ZM6-257-010	FLYWHEEL ASSY L2 (D1)		1
	4-6	★86-535-231-510	LEVER, TRIGGER PLAY		1
	4-7	80-ZM6-227-110	BELT, SQ 1.2 – 140		1
	4-8	★80-ZM6-205-110	T – SPRING, MAIN		1
	4-9	★86-575-312-110	CAM, MAIN		1
	4-10	★80-ZM6-243-019	SHEET 1.75 – 3.6 – 0.5 SLT		1
	4-11	★80-ZM6-242-019	SHEET 1.95 – 3.6 – 0.5 SLT		1
	4-12	★80-ZM6-219-210	CAM, FR MK 2 2M		1
	4-13	★86-575-229-210	LEVER, PAUSE B		1
	4-14	★86-535-291-210	T – SPRING, FR CAM		1
	4-15	★86-535-230-510	LEVER, TRIGGER FR		1
	4-16	★80-ZM6-220-019	T – SPRING, FR 2		1
	4-17	★86-575-326-210	LEVER, LINK		1
	4-18	★86-575-328-110	GEAR, IDLER		1
	4-19	★80-ZM6-217-010	MAGNET, RING 2		1
	4-20	★80-ZM6-222-110	SHAFT, FR PULLEY		1
	4-21	★80-ZM6-218-110	LEVER, FR 2		1
	4-22	★80-ZM6-221-110	GEAR, FR 2		1
	4-23	★80-ZM6-224-410	PULLEY, COUPLER		1
	4-24	★80-ZM6-213-110	HOLDER ASSY P (D1)		1
	4-25	★86-575-221-310	GEAR, PLAY		2
	4-26	★80-ZM6-230-019	SHEET, BELT		2
	4-27	★81-ZM7-202-110	BELT, SQ 1.3 – 262 (D2)	※	1
	4-27	★81-ZM7-203-110	BELT, SQ 1.3 – 274 (D1)	※	1

SPRING APPLICATION POSITION


80-ZM6-268-010
スライド E スプリング 3
E-SPRING, SLIDE 3
80-ZM6-206-010
カセット T スプリング
T-SPRING, CASSETTE
86-535-293-010
リールテーブル C スプリング
C-SPRING, REEL TABLE
86-535-284-010
ディレクションレバー E スプリング
E-SPRING, DIRECTION LEVER
86-535-293-010
リールテーブル C スプリング
C-SPRING, REEL TABLE
86-575-226-010
シャーシヘッド E スプリング
E-SPRING, CHASSIS HEAD
86-535-283-010
PLAY ギヤ T スプリング R
T-SPRING, PLAY GEAR R
86-535-282-010
PLAY ギヤ T スプリング F
T-SPRING, PLAY GEAR F
86-575-341-010
ピンチ T スプリング L
T-SPRING, PINCH L
86-575-222-010
ピンチ T スプリング F
T-SPRING, PINCH F
86-575-339-010
ピンチ E スプリング 22
E-SPRING, PINCH 22
86-575-310-010
ヘッド T スプリング
T-SPRING, HEAD
86-541-318-010
アジマス C スプリング
C-SPRING, AZIMUTH
80-ZM6-229-010
ギヤ SEG T スプリング 2
T-SPRING, GEAR SEG 2


80-ZM6-220-010
FR T スプリング 2
T-SPRING, FR 2
80-ZM6-205-010
メイン T スプリング
T-SPRING, MAIN
86-535-291-010
FR カム T スプリング
T-SPRING, FR CAM

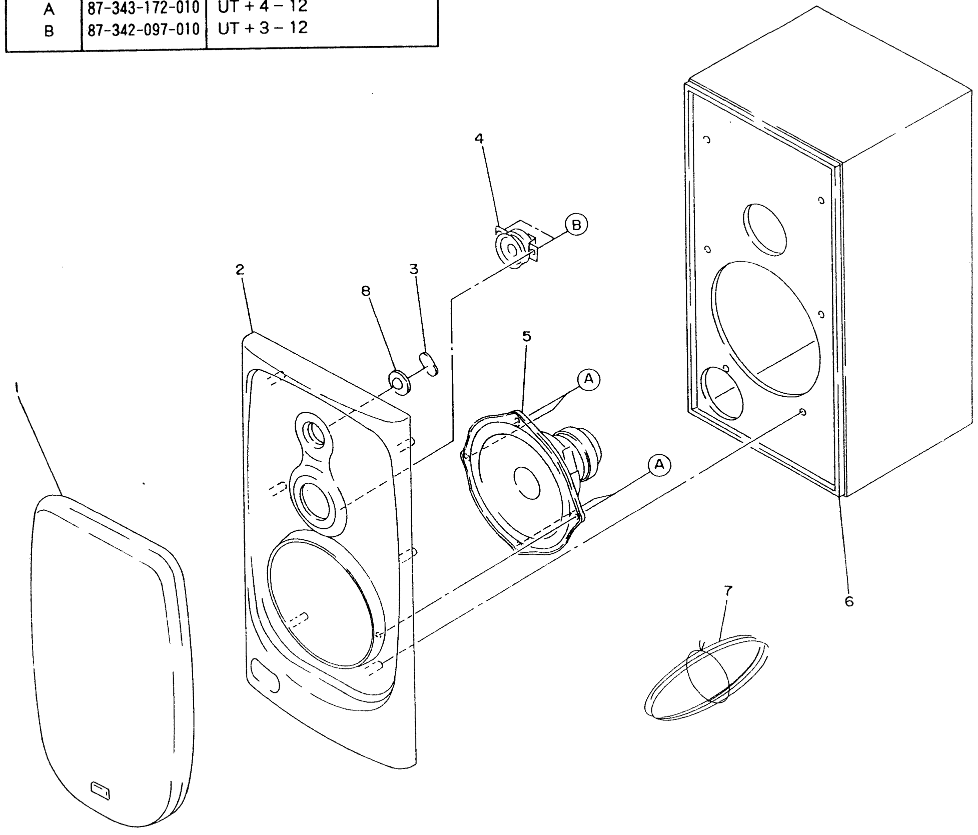
DISASSEMBLY INSTRUCTIONS (SX－N350M, SX－N351M, SX－352M)



- Insert a flat-bladed screwdriver into the positions indicated by the arrows (shown in the above figure) and remove the grill assemblies of the woofer, mid-range speaker and tweeter. Remove the screws of each speaker unit and then remove the speaker units.

EXPLODED VIEW (SX – N350M, SX – N351M, SX – N352M)

REF. NO.	PART NO.	DESCRIPTION
A	87-343-172-010	UT + 4 – 12
B	87-342-097-010	UT + 3 – 12



■ SPEAKER LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1	★82-NS4-006-010	GRILL FRAME ASSY		2
	2	★82-MS4-004-010	PANEL, FRONT L (B) (N350M)		1
	2	★82-MS4-005-010	PANEL, FRONT R (B) (N350M)		1
	2	★82-NS4-011-010	PANEL, FRONT L (N) (N352M)		1
	2	★82-NS4-012-010	PANEL, FRONT R (N) (N352M)		1
	2	★82-NS4-013-010	PANEL, FRONT L (W) (N351M)		1
	2	★82-NS4-014-010	PANEL, FRONT R (W) (N351M)		1
	3	81-MSE-610-010	CERAMIC		2
	4	81-MSE-604-010	SPEAKER, TWEETER		2
	5	81-MSE-602-010	SPEAKER, WOOFER		2
	6	- - -	CABINET ASSY		2
	7	★83-096-614-010	CORD, SPEAKER		2
	8	★81-MSD-011-010	CAP		2